

## EXECUTIVE SUMMARY

**DATE:** December 31, 2019

**TITLE:** 5 Year Capital Plan and 2020 Capital Roadway Improvements

**BACKGROUND:** Using the PASER pavement rating system projects have been identified for 2020 through 2024. The five year capital plan is revised and approved each year to adjust for levels of funding, unanticipated deterioration of specific roadways, coordination with SB Utilities, and other issues that warrant the delay or acceleration of various planned roadway projects. For 2020 the proposed capital roadway improvement projects include:

- 1) E Walnut Drive (from E Walnut Place to S Tomahawk Ave): Full reconstruction of the roadway. This project will include all new curbing, pavement, and replacement of the storm sewer on the south side of the roadway. The current storm sewer is a very shallow corrugated plastic pipe that runs just behind the curbing. Due to the material and shallow depth it has been causing substantial damage to several driveways on the south side of the roadway. The new storm sewer line will be moved further south within the right of way to get better depth in order to help eliminate this problem. This roadway is located in a very low lying wet area of the City and has deteriorated much more rapidly than would typically be anticipated given its age. Therefore, a geogrid will be added beneath the roadway base to help stiffen the roadway. In addition, the roadway width (from face of curb to face of curb) will be reduced by 5'-0" from 35'-0" to 30'-0".
- 2) Circle Ridge Place (from S Ridgeway Drive to Quarter Deck Lane): Mill & pave. This project will include manhole and water valve adjustments, spot replacement of the curbing, and replacement of the pavement.
- 3) S Hudson Ave (from W Maple Street to W Pine Street): Mill & pave. This project will include manhole and water valve adjustments, misc. storm sewer repairs, spot replacement of the curbing, and replacement of the pavement.
- 4) W Pine Street (from S Lansing Ave to S Hudson Ave): Mill & pave. This project will include manhole and water valve adjustments, spot replacement of the curbing & sidewalks, and replacement of the pavement.
- 5) S Ridgeway Drive (from Tacoma Beach Road to Termination): Mill & pave. This project will include manhole and water valve adjustments, misc. storm sewer repairs, spot replacement of the curbing, and replacement of the pavement.
- 6) E Binnacle Place (from S Ridgeway Drive to S Ridgeway Ave): Mill & pave. This project will include manhole adjustments, spot replacement of the curbing, and replacement of the pavement.
- 7) S Ridgeway Ave (from E Binnacle Place to E Compass Street): Mill & pave. This project will include manhole and water valve adjustments, spot replacement of the curbing, and replacement of the pavement.
- 8) Shiloh Road (from E Leeward Street to Division Road): Mill & pave. In 2019 WPS installed a new gas line along the north edge of the roadway. Their initial intent was to do minimal patching to restore the disturbed portions of the roadway after their work was completed. However, due to various reasons they ended up doing a full depth mill & pave on the north half of the roadway. Therefore, it was decided to mill & pave the south half of the roadway so that the entire roadway will be in good condition for years to come.
- 9) Louisiana Street (from N 4<sup>th</sup> Ave to N 5<sup>th</sup> Ave): Mill & pave. This project will include spot replacement of the curbing & sidewalks, and replacement of the pavement. In addition, the City will be coordinating with the property owner at the NW corner of Louisiana Street & N 5<sup>th</sup> Ave

- to add small retaining walls along the back of their sidewalks. This will allow the sidewalks to be lowered in order to remove the steps and provide proper ramps in the sidewalks at the corner.
- 10) Louisiana Street (from N 9<sup>th</sup> Ave to N 12<sup>th</sup> Ave): Mill & pave. This project will include manhole and water valve adjustments, spot replacement of the curbing, and replacement of the pavement.
  - 11) N 10<sup>th</sup> Place (from Louisiana Street to N 11<sup>th</sup> Place): Mill & pave. This project will include manhole and water valve adjustments, spot replacement of the curbing, and replacement of the pavement.
  - 12) Bluebird Street (from N 12<sup>th</sup> Place to N 14<sup>th</sup> Ave): Mill & pave. This project will include manhole and water valve adjustments, misc. storm sewer repairs, spot replacement of the curbing, and replacement of the pavement.
  - 13) Memorial Drive (from Utopia Circle – East to Utopia Circle – West): Mill & pave. This project will include manhole and water valve adjustments, misc. storm sewer repairs, spot replacement of the curbing, and replacement of the pavement.
  - 14) S 15<sup>th</sup> Ave (from Memorial Drive to Texas Street): Mill & pave. This project will include manhole and water valve adjustments, misc. storm sewer repairs, spot replacement of the curbing & sidewalks, and replacement of the pavement.
  - 15) Utah Street (from S 15<sup>th</sup> Ave to S 18<sup>th</sup> Ave): Mill & pave. This project will include manhole and water valve adjustments, misc. storm sewer repairs, spot replacement of the curbing, and replacement of the pavement.
  - 16) Jefferson Place (from N 18<sup>th</sup> Ave to Kentucky Place): Mill & pave. This project will include manhole and water valve adjustments, spot replacement of the curbing, and replacement of the pavement.
  - 17) Barrick Road (from N Ashland Ave to N Duluth Ave): Pulverize and pave. This roadway is shared by both the City of Sturgeon Bay and the Town of Nasewaupee. Due to various annexations over the years both the City and Town have multiple small segments within this overall roadway that they are responsible for, making it very difficult for either municipality to replace their portions of the roadway without coordinating to replace the entire section. The roadway is approximately 1384 LF. The City of Sturgeon Bay's portion would cover 362 LF and the Town of Nasewaupee has agreed to pay for their 1022 LF of the overall project.
  - 18) W Oak Street (from S Duluth Ave to S Columbia Ave): Pulverize and pave. This roadway is shared by both the City of Sturgeon Bay and the Town of Nasewaupee. Due to various annexations over the years both the City and Town have multiple small segments within this overall roadway that they are responsible for, making it very difficult for either municipality to replace their portions of the roadway without coordinating to replace the entire section. The roadway is approximately 2099 LF. The City of Sturgeon Bay's portion would cover 782 LF and the Town of Nasewaupee has agreed to pay for their 1317 LF of the overall project.

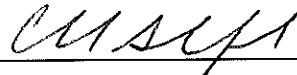
In addition to the capital roadway improvement projects listed above there are two other capital projects that are also proposed for 2020:

- 1) 708 N 7th Ave (along Florida Street): Sidewalk addition. The approved Amity Field Townhomes development currently under construction includes a sidewalk along Florida Street. This sidewalk addition will tie the sidewalks for the development to the sidewalks at N 7<sup>th</sup> Ave. This project was scheduled to be completed in 2019 but the gas line installations for the development needed to be placed in the same location and delayed this project into 2020. The cost for this project will be billed to TID #3 which has money budgeted to pay for the proposed sidewalk addition.


- 2) Maple / Oregon Street Bridge: Thin Polymer Overlay. In June of 2018 the City of Sturgeon Bay entered into a State Municipal Agreement with the WI DOT to add a thin polymer overlay on the bridge and bridge approaches. The design work has been completed and the WI DOT plans to bid and construct the project in 2020. This overlay will seal cracks in the deck to help prevent chlorides from penetrating into the concrete and extend the life of the concrete deck on the bridge and bridge approaches. The 2020 budget included funds for the project which are sufficient to cover the current engineering estimates.

**FISCAL IMPACT:** The proposed 2020 capital roadway improvement projects are expected to use approximately \$1,354,138.00 of the \$1,355,000 budgeted. Therefore, if the bids come in favorably all of the projects should be able to be completed as proposed. If not, modifications to the plan may be needed in order to stay within the overall 2020 capital roadway improvement budgets.

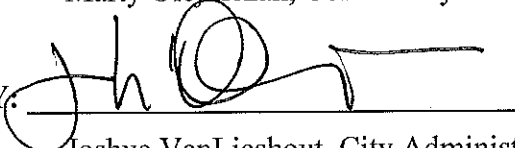
**RECOMMENDATION:** Staff recommends approval of the five year capital plan including the authorization for the preparation of bid documents for the 2020 capital roadway improvement projects as described above.

**SUBMITTED BY:**   
Chad Shefchik, City Engineer

Date: 12/31/19

**REVIEWED BY:**   
Marty Olejniczak, Community Development Director

Date: 12/31/19

**REVIEWED BY:**   
Joshua VanLieshout, City Administrator

Date: 12/31/19