

PROVIDENCE INFRASTRUCTURE IMPROVEMENT ESTIMATES

ROADS, SIDEWALKS AND SEWERS

MAY 19, 2015

A. Roads

- In 2012 a Pavement Management System Update was performed. See Attached Powerpoint Presentation of the results of that update.
- From the update 240 miles of Roads were identified that required repaving.
- Roughly 60 miles will be paved with the \$40 Million bond, which we expect to be completed this year
- That would leave 180 miles of roads still to be paved.
- Current estimates for road resurfacing is \$650,000/mile
- At current time it would take $180 \times \$650,000 = \$117,000,000$ to bring the city's streets to minimum pavement condition index above a 70.
- Additionally from the update, in order to preserve and extend the life of the remaining roads, it would require maintenance such as crack sealing of the 123 miles of roads, at a cost of \$7,000/mile adding the additional cost of \$861,000, bringing the total cost to \$118,000,000
- **Therefore the city would need to bond for \$120,000,000 for roads alone. This estimate is in today dollars, and based on current road conditions, which will obviously worsen over time if no funding for repaving projects is included in the budget.**

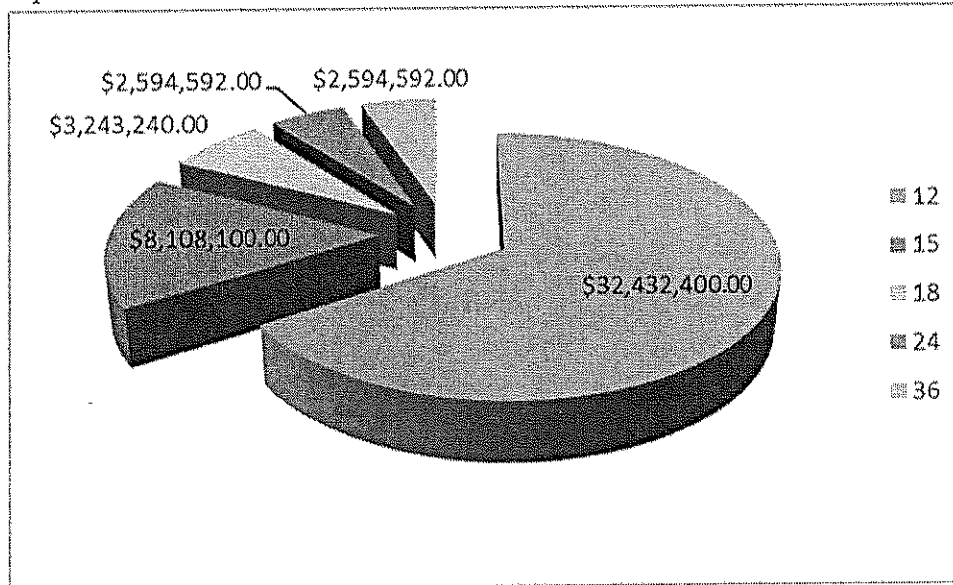
B. Sidewalks

- Attached is the study done in October 2014 that estimated that there was over 3500 sidewalk repair applications on file in the City that needed to be repaired.
- **Cost estimate to repair this backlog of sidewalk applications is \$20,000,000.** With the typical amount of funding (CDBG) that is used for these types of projects and no additional bonding it would take 20 years to repair the amount of sidewalks on this list.
- The above is based on sidewalk repair applications from the citizens of Providence. **In order to properly develop an estimate, a sidewalk study is needed which would cost an estimated \$150,000 to complete.** We believe this study will reveal a substantially larger amount of sidewalk repairs required than indicated from the sidewalk repair applications. **These additional repairs could**

be an additional \$70 million beyond the repairs from the sidewalk applications.

C. Sewers

- It is estimated that it will take somewhere around \$50 million to bring the Providence sewer system up to acceptable standards.
- This estimate was derived by estimating the amount of different diameter sewer pipe that needs replacing and applying the current industry estimated cost of replacement for that estimated diameter pipe needing replacement.



- It is recommended that the City invest in a comprehensive study to establish a more precise and realistic estimate.