

14-0163-S1

PUBLIC WORKS & GANG REDUC FEB 26 2014

MOTION

In the last year that the 50/50 program was funded (FY 2008-09), the cost of sidewalk reconstruction with conventional portland cement concrete (PCC) was about \$20 per square foot when reconstructing a whole block, and approximately \$35 per square foot when reconstructing one parcel at a time. The Bureau of Street Services (BSS) estimates that more than 60 -70% of these costs are attributable to the removal existing concrete, tree work and repairs to driveways and sprinkler systems damaged during removal work.

BSS has experimented with alternative materials to PCC including, rubber panels, recycled mixed plastic materials, poured rubber materials and porous concrete, with costs ranging from \$24 to \$32 per square foot.

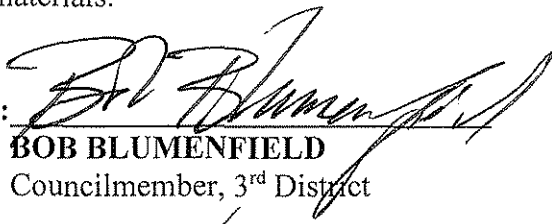
BSS has also been testing and using recycled asphalt and "grindings" mixed with recycled crushed concrete and other materials. This approach can be used without out removing the damaged sidewalk, but these are only patches waiting for more sustainable solutions.

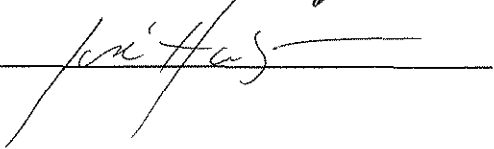
The City of Santa Monica has implemented a sidewalk repair program using rubber sidewalks to replace sidewalks that have been altered by tree roots. Santa Monica began installing rubber sidewalks in 2000 as an alternative to concrete and has installed approximately 20,000 square feet of rubber sidewalk at 232 sites citywide.

It is estimated that over 100 cities are implementing rubber sidewalk programs. The rubber pavers are made from recycled California tires. In 2008, a version of this sidewalk technology was introduced which recycles both tire rubber and plastic. It is estimated that each square foot of rubber sidewalk diverts one passenger tire from the landfill.

Rubber sidewalks not only reuse unwanted tires, they also help to promote the health and stability of urban trees. The rubberized panels stretch to accommodate growing tree roots and can be lifted to allow for tree root trimming. Rubber sidewalks are a cost effective long range sidewalk maintenance solution because the sidewalk modules can easily be removed, replaced and recycled.

I THEREFORE MOVE that Bureau of Street Services be directed to develop and present a pilot sidewalk repair/reconstruction program using alternative sidewalk materials including, but not limited to, rubber sidewalk products and permeable materials.

PRESENTED BY: 
BOB BLUMENFIELD
Councilmember, 3rd District

SECONDED BY: 

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