



Playground Safety Surfacing

**Parks, Recreation and
Community Services Department**

Park and Recreation Commission
April 10, 2017

Playground Safety Surfacing

Surfacing types in Riverside's playgrounds

- 1) Poured-in-place rubberized surfacing
- 2) Uniform Wood Fiber (Certified Wood Chips)



Sycamore Highlands Park



Rutland Park

Poured-in-Place Rubberized Surfacing

- 1) First installation in 1991 at Fairmount Park to replace sand; Product was by Miracle Playground
- 2) Later projects used 5-year warranty product from Surface America



Poured-in-Place Rubberized Surfacing

- 1) Current product is manufactured by TotTurf
- 2) 10-year warranty, requires application of top-coat every 18 months
- 3) Replacement cost is about \$17/square foot
- 4) 2015/2016 - replacements completed at Arlington, Bordwell, Bryant, Don Derr, Riverwalk, and Sycamore Highlands Parks at a total cost of \$627,466
- 5) Next site – Nichols Parks



Poured-in-Place Rubberized Surfacing

Replacement process

- 1) Remove old surfacing
- 2) Re-compaction of rock base material
- 3) Compaction testing
- 4) Installation of black cushion layer
- 5) Installation of colored wear course
- 6) Head Impact Coefficient (HIC) Testing



Poured-in-Place Rubberized Surfacing

- 1) As surfacing wears, Parks staff are able to patch and repair small areas
- 2) Large area failure requires removal and replacement



Uniform Wood Fiber

January and February 2017: 2,335 cubic yards of wood fiber were pneumatically added (“blown-in”) at the 13 following park locations:

- Bergamont
- Bobby Bonds
- Castlevue
- Collett
- Doty Trust
- Fairmount
- Hunter Hobby
- Patterson
- Rancho Loma
- Rutland
- Ryan Bonaminio
- Taft
- Thundersky

- 1) Contract amount: \$110,400
- 2) About \$47/cubic yard



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Uniform Wood Fiber

- 1) Must meet safety standards for impact attenuation, maneuverability, non-flammability, and sieve test
- 2) Made from 100% clean wood
- 3) Free of twigs, bark, leaf debris
- 4) Free of any foreign objects
- 5) Non-toxic



Uniform Wood Fiber

- 1) Wood should be raked every 2-3 months
- 2) Wood should be replenished every 1-2 years to maintain a safe play area



RECOMMENDATION

Park and Recreation Commission receive report for file.