Concrete Results

The Challenge
The parking lot at Brookshire Park was experiencing serious problems due to poor drainage on its aging asphalt surface.

The Solution
GCC of America worked with SLV Quality Concrete to place a 3-inch concrete overlay on the existing 26,600 ft² of asphalt, using a 3D laser screed for precise placement. They also overlaid the curb and gutter to tie into the new pavement. The concrete incorporated a special macro fiber strong enough to replace steel rebar. Brannan Sand and Gravel supplied the materials.

The Results
The entire process took only one week, and served as a live demonstration of the advantages of concrete overlays. Thornton pavement engineer, Richard Nickson, said, “We are very happy with the rapid construction of the concrete resurfacing at Brookshire Park...the neighborhood will really enjoy this upgrade.”

Brookshire Park
11760 Clayton St, Thornton, CO 80233

Design Factors:
- Existing asphalt surface in need of overlay
- Some minor base failure in areas of poor drainage

Concrete Placement:
- 4000 psi w/ macro fiber
- Laser Screed placement
- Early entry, thin-blade saw
- 5’ OC joint spacing for standard