



COPIC, Denver, Colorado

EnCon Renew acted as a specialty repair subcontractor providing concrete structural repair, reconstruction, and caulking services to the COPIC parking structure in an effort to refurbish damage caused by water infiltration and freeze thaw cycles. An incomplete drainage plan created regular ponding and overflow in a corner of the deck with repeated exposure to moisture and deicing salts, leading to spalling of the concrete on the underside of a significant structural member. Constant movement of the concrete, due to temperature cycles and water exposure, creates an extremely harsh environment for any material. To reduce these issues, a revised drainage plan using a new custom gutter system facilitated proper drainage and water management.

The parking structure's repair and restoration was comprised of patching spalls replacing patches that have worked themselves out over time, a custom gutter system in the stair core, caulking removal and replacement, and the addition of custom skate board stops on the tubular handrails. EnCon Renew provided all project management, concrete work, and caulking installation work for the COPIC repair project.

Project Facts:

Market Segment: Parking Structures
Building Type: Parking Garage
Products Used: Forming, concrete and caulking, traffic coating

Project Design Team:

Owner: COPIC Trust
General Contractor: GH Phipps
Engineer of Record: Walker Restoration Consultants

Company Information:

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A new gutter system was installed to collect the sheet flow of rain and snow melt from the stair landing above.



All lifting loop locations on spandrels above the top parking level showed signs of distress with crack lines around the perimeter of existing patch material, and were repaired with concrete patching.



An inverted team beam and the cast-in-place ramp interface were skim coated and patched.



Loose concrete on the underside of the cast-in-place ramp edges was removed and repaired.

