



### PROJECT ASSESSMENT

#### *“Shot-crete Job Gone Wrong”*

Grant City, Missouri determined that their city’s formed and poured concrete pool was badly cracked and the surface very deteriorated. Not having been properly winterized and constructed with metal piping, the city also opted to have the old circulation lines replaced with PVC. The existing shell of the pool was kept, acting as a ‘form’ for the new, slightly smaller pool. A contractor was hired to rebuild the pool. However during placement of the new concrete, several surprises occurred: The concrete order was greatly underestimated, delivery to this small city from a small concrete plant took over an hour per truck, cool / cold weather hampered placement and there was an inability to ready more concrete as needed to finish the placement as darkness approached

### RENOVATION PLAN

#### *“How it was done”*

When Mid-America Pool Renovation, Inc. took over the project, the first course of business was to have the concrete placement of the walls, steps and gaps in floor finished. Because several months passed between the original placement and supplemental placement needed to finish the job, bonding agents and mechanical surface preparation had to be implemented. Expansion joints in the original constructed pool had to be located and opened so cracks from those joints would not reflect up through the new shot-crete shell. The original plans for the pool called for an epoxy painted finish. However the concrete

that was placed was of such a wet mix that settlement cracks were rampant throughout the pool floor. Conversely, the pool walls and entry steps once finished were so rough that a complete cement-render job was necessary to ready the pool for a reasonably smooth surface. To combat these irregularities and problems with the pool surface, and several sectional pours, the **InterSteel Crack Repair Method** and INTER-GLASS® Reinforced Composite System were installed over the entire pool interior.

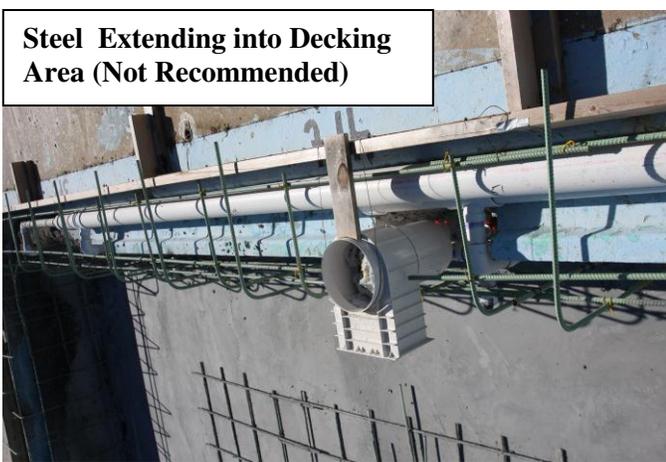




**Unfinished Steps and Walls**



**Hopper Bottom Joints Covered over Unfinished Floor & Walls**



**Steel Extending into Decking Area (Not Recommended)**



**Steel Re-done and Confined to Cantilever Area**



**Entire Pool Cement-Rendered & New Concrete Cantilever Poured**



**Hopper Bottom Joints Exposed & Rebuilt into New INTER-GLASS® Surface**

**PROJECT SPECIFICATIONS:**

- |                          |                            |
|--------------------------|----------------------------|
| TOTAL SQ. FT.:           | 4,880                      |
| POOL SHAPE:              | RECTANGULAR W/DEEP END     |
| TYPE OF CIRCULATION:     | SKIMMERS                   |
| TYPE OF CONSTRUCTION:    | SHOT-CRETE / CEMENT-RENDER |
| TYPE OF INTERIOR FINISH: | INTER-GLASS                |