UNIQUE APPLICATION
Kenny Obayashi JV challenged EFCO to provide a rollback system on an inside radius application. Using the EFCO REDI-RADIUS® system mounted to EFCO’s GUIDED RAIL SYSTEM (GRS) frames provided the best value and lowest inplace concrete costs on the South Hartford Conveyance and Storage Tunnel.

CUSTOM SOLUTION
EFCO engineers designed a solution that included two 12’ (3,600 mm) REDI-RADIUS forms mounted on three GRS frames to create 24’ (7.2 m) long gang forms. Custom GRS shoes were designed with a bevel to allow the outer frames to be parallel to the center frame that was using the standard GRS shoe. In addition, EFCO Combination Bias Corners and Reverse Bias Corners were installed between gangs and oriented so every other gang could be rolled back for cleaning first, then the other gangs could be rolled back immediately after. Forms were then rolled forward in reverse order.

NO TIES: A REQUIREMENT
Project requirements also demanded the system be a tieless 74’ (22.6 m) diameter compression form x 10’ (3 m) tall placement. The contractor completed the 80’ deep shaft and shipped the forms back while they excavated another 100’ (30.5 m) down. At that point, the contractor requested EFCO’s assistance to reconfigure the forms to the next diameter of 70’ (21.3 m) and ship them back to the crew for the next phase. ◊

EFCO REDI-RADIUS® Sr. panels have an integrated strap that adjusts to any radius greater than 18'-0" (5.5 m) with no loose pieces. If a tighter radius is required, EFCO offers the REDI-RADIUS Jr. with a minimum radius dimension of 9’ (2.75 m).

Mike Surman......................Project Manager
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Adam Elkins.......................Field Engineer
Steve Kulla.......................EFCO Sr. Territory Manager
Lou Szabo.........................EFCO Field Supervisor
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