



**PROJECT:** General Motors Paint Booth  
Fairfax Assembly Plant

**CLIENT:** Sachs Electric

**LOCATION:** Kansas City, Missouri

Sachs Electric was the electrical subcontractor on the General Motors Paint Booth at the Fairfax Assembly Plant in Kansas City, Kansas. The Paint Booth was part of the new General Motors Assembly Plant in Kansas City. Sachs Electric in bidding the job took-off 3,000 feet of 1/2" conduit. In making its takeoff Sachs had assumed that the conduit lengths would terminate at the closest bus. During construction, Sachs discovered a bus schedule which indicated that the conduit runs were not to the closest bus but rather to a specific bus. The actual lengths of 1/2" conduit required was some 12,000 feet.

General Motors, deleted the majority of the 1/2" conduit. General Motors requested the change order credit based on 12,000 feet of 1/2" conduit. Sachs objected and claimed the credit change order should be based on their original take-off length of 3,000 feet.

CCL was retained to review Sachs' estimate and takeoff procedure, along with the plans and specifications to determine whether Sachs during the estimate had performed as a reasonable contractor and whether the plans and specifications met the standard of care expected for electrical drawings. Generally, if the standard of care for electrical drawings was met and Sachs did not perform as a reasonable contractor the credit change order should be based on 12,000 feet of 1/2" conduit. If, however, Sachs had acted reasonably and CCL found the plans misleading, the credit change order should be based on the 3,000 feet of 1/2" conduit.

After reviewing the plans and specifications CCL found the design drawings misleading and determined Sachs had acted reasonably. CCL recommended that the credit change order be based on 3,000 feet of 1/2" conduit and provided a letter with case support and other references to indicate that Sachs' original takeoff was appropriate and should be the basis for the credit change.