

CASE HISTORY

PROJECT: *922 WALNUT STREET, KANSAS CITY, MISSOURI*

Scope of Work: Control lateral movement of granite scrolls over entrance way

The National Bank of Commerce Building, located at 922-924 Walnut Street, Kansas City, Missouri, is a sixteen-story granite, Brazilian brick and terra-cotta commercial building. Designed by Chicago architect Jarvis Hunt in 1906-07 and constructed in 1907-08 by George A. Fuller Company, Kansas City.

The main facade faces east. The symmetrically-placed entrances are situated behind three prominent arches, crowned by a denticulate balustrade and supported by elaborately carved molded scrolls with volutes and garlands. Smaller similarly designed brackets, positioned at the top center of each arch, visually resemble keystones.



The photo shows the anchor extending through the plate girder and past the attached terra cotta. The inflated anchors is 3.5" in diameter extending out of a 2.5" hole.

The picture below shows this wall condition. This attachment approach secures the scrolls directly to the plate girder with a nut and washer which is recessed into the drilled hole in the face of the granite.

During an exterior examination of the main entrance it was discovered that the granite scrolls were showing some tendencies of later movement. The solution was to install three Cintec anchors evenly spaced the height of the granite scrolls. The scrolls are about 7 feet tall.

Three 2.5" holes were drilled in the granite scrolls through an eye plate and a 4"x3"x5/16" plate girder plus through the terra cotta attached to the plate girder. Photo below shows the two holes drilled into the granite scrolls.



Owner	Tower Properties Co, Kansas City, MO
Contractor	Chamberlin Contracting, INC
Engineer of Record	Structural Engineering Associates, Inc