

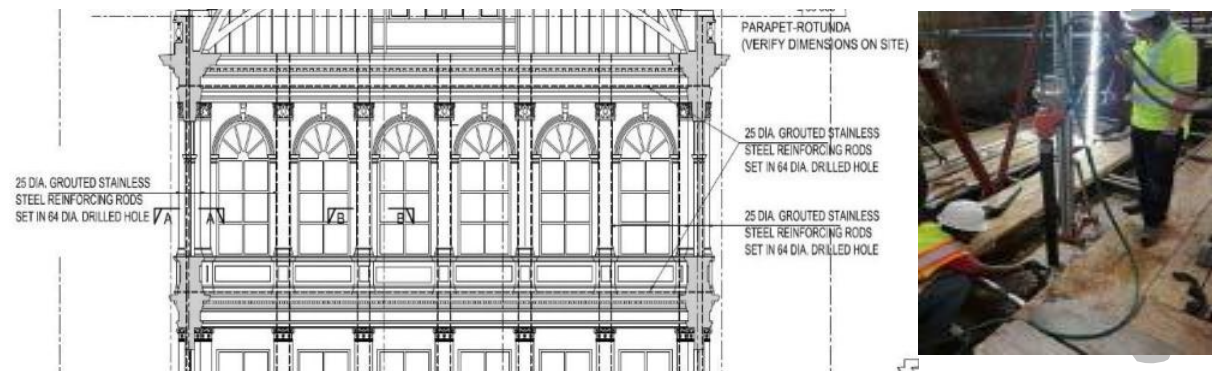
The RED HOUSE, Parliament Buildings, Trinidad & Tobago **Structural Seismic Retrofit**



The Red House is the seat of the Parliament for the republic of Trinidad & Tobago. The architectural design is of the Beaux-Arts style. The original building, never completed, was built between 1844 and 1892. Painted Red, hence its name, was severely damaged by fire in March 1903 – rebuilding / Refurbishment started in 1904 on the same site and was opened in 1907.

Following the completion of the installation of Cintec Reinforcement in the external walls of the Queens Royal College, T & T. Cintec were asked to provide information to Genivar (now known as W.S.P) and C.E.P as far back as 2007. Strengthening work to the Red House finally started in 2017 when this portion of the restoration contract was let to Tohmatsu Technologies Ltd of T & T. The Cintec approved contractor Celtest of Bangor, North Wales under the guidance of Jason Chinery was awarded the contract to install the Cintec Reinforcement System. Cintec provided additional specialist training and

long reinforcement bars at Celtest's head office in Bangor, North Wales to ensure, as far as possible, that there would be no long hole drilling problems on this very important Historic project. These trials determined the positioning of the drill; it was calculated that deliberately pointing the drill up 0.50 degrees should compensate for the force of gravity pulling down the core barrel over 38m/ 125 ft.in length. This proved to be very effective, as the drill exited at the other end of the beam exactly as predicted vertically and only 50mm/1.968inch out on the horizontal. These Long anchors are on the second floor of the building through a beam that is only about 1.0m square. Accuracy is critical: misalignment by one degree would result in the drill exiting the side of the beam within 20m/65.5ft. of the starting point.



On this project for the first time Cintec has used computer 3D printed parts and Cintec's longest anchor to-date, at 120 ft. / 36.52m has been successfully installed.

