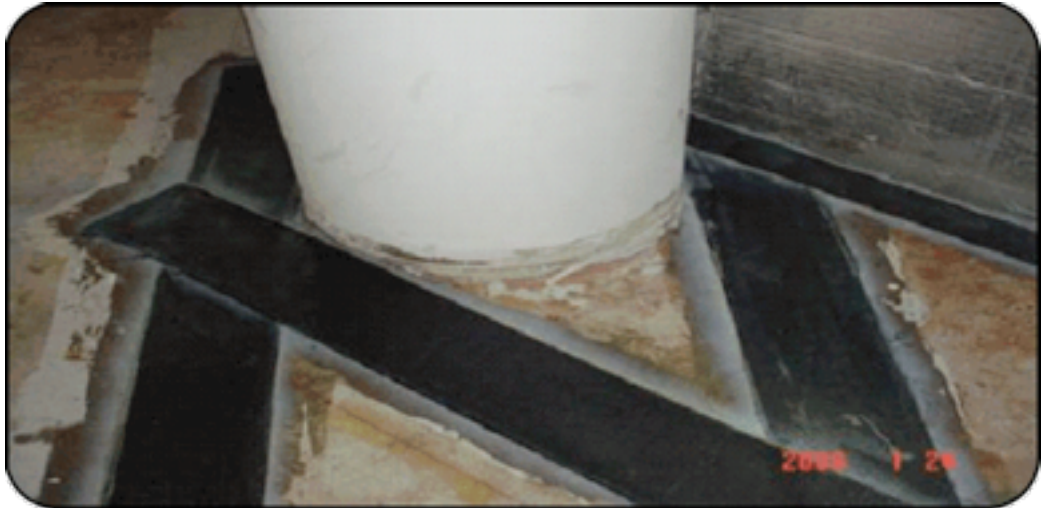


Project: National-Louis University

Column
Strengthening



Chicago, IL



Project Description:

Due to some building modifications, the loading on several beams were being increased. There were new partitions and new concrete being added to the underside of the beams.



Solution:

Fiber wrap was applied around column to increase the negative moment capacity, as well as, an application to the underside beam mid-span to increase the positive moment capacity. Tyfo® anchors were used to improve the development length in some areas. Fire-proofing was applied to the fiber wrap on the beam underside.



Summary:

The fiber wrap offered an unobtrusive solution to handle the additional demand on the structure. The engineer (TGRWA) proposed two solutions - carbon composites or additional concrete. The composites proved to be more economical and competitive.

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