



RAFFIN
CONSTRUCTION CO.

QUALITY CONSTRUCTION
SINCE 1916

PROJECT PROFILE:

A DIFFICULT FIT

Raffin Construction was contracted to construct a 16 feet deep pit in the middle of the production area to enable the plant to unload raw material at grade into tanks set in the pit.

OBSTACLES

The pit had to be excavated in a tight area of the plant which had a water table located approximately 6 feet below the top of the floor slab. Also, the proposed location of the pit was alongside the main building foundations which were only four feet below the top of the floor slab and had loads in excess of 175 tons per column.

SOLUTION

Raffin Construction worked with the owner to relocate the pit to minimize the impact of the surrounding building foundations on the pit and resize it to the most efficient dimensions. Raffin then designed a soldier pile soil containment system to support the soil and building foundations. In order to prevent water seepage into the pit, Raffin Construction installed a plastic membrane containment system to envelope the entire foundation.

