



May 18, 2021

Micah Lowenthal  
939 Orleans St.  
New Orleans La

RE: Pool by Specialty Pools and Outdoor Living, LLC

Dammon Engineering was contacted by Merlin DeCorte' to give our recommendation for the installation of a 7 ft x 32 ft pool next to the existing residence. The design of the pool originally was 3 feet from the residence; however, the Vieux Carre' has required additional separation from the property line. This has resulted in moving the pool closer to the residence, approximately 1 foot from the edge of the residence.

The residence is supported on brick constructed piers using bricks as the foundation to these piers.

Mr. DeCorte' had his excavation crew expose the foundation, see photos. It appears that the foundation for these piers is decaying.

Analysis of the existing conditions revealed that the existing pier foundations are supported not only directly underneath the piers but also starting at the bottom of the foundation on a angle of 45 degrees away from the foundation as well. Since the pool is to be constructed only 1 ft away from these pier foundations, the pool will interfere with the pier support mechanism.

We recommend the following:

1. The owner should consult with a House Leveling or Foundation Repair company to have the piers and their foundations removed. We recommend that screw piles be installed to support the piers and have the company rebuild the piers to meet the Vieux Carre' requirements. The screw piles shall be installed such that a minimum depth of 10 ft is obtained for supporting the piers. This minimum depth is 2 to 3 feet below the excavation required to install the pool.
2. After the screw piles have been installed and piers have been rebuilt, we recommend that prior to the general excavating for the pool that the exterior sidewalls of the pool be excavated and shoring to be installed resist against sidewall failures.
3. We also recommend that the pool be constructed a "minimum" of 3 feet from the edge of the piers supporting the house to the outside edge of the concrete pool wall. If this is done then screw piles are not required under piers.

Sincerely,

Brian A Mistich, P.E.  
La. License No. 0030187



