SafeBasements™

ENTIRE FOUNDATION LIFTED AND LEVELED USING SAFEBASE^TM PUSH PIERS

SafeBasements of North Dakota was contacted regarding concerns of cracks in drywall along with sticking windows and doors. A site survey was performed and found that there was up to 3 inches of settlement throughout the house and garage. A plan was made to underpin the settling foundation using SafeBase^TM 2.875" Standard Duty Push Piers. Piers were to be installed along the inner perimeter of the house and the outer perimeter of the garage. A test pier was installed prior to starting the project; it was driven to refusal at a depth of 76 feet. A total of 82 push piers were to be used, 49 on the interior of the home, 27 on the exterior of the garage, and 6 in the window wells attached to the home.
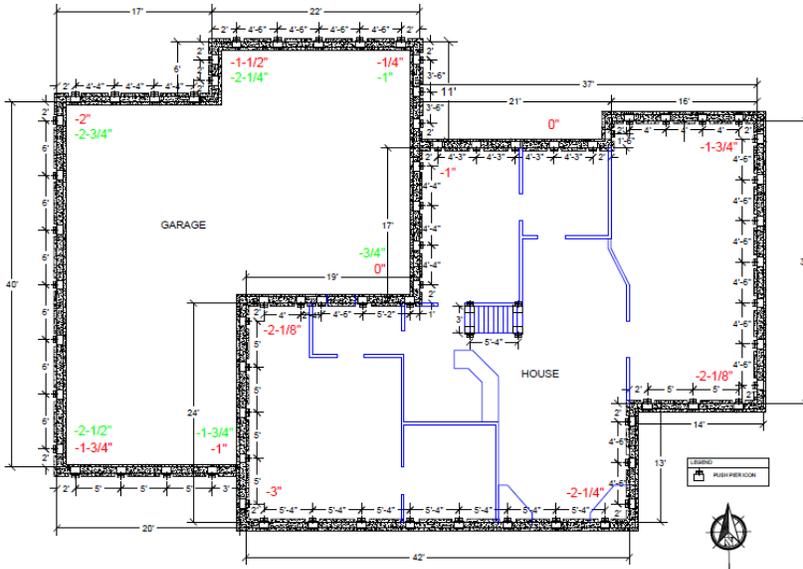
Extra care was taken on the interior of the home to protect the work areas. Plastic was hung to prevent the spread of dust and keep surfaces clean, and protection was placed over carpentry and in doorways. Low profile brackets were used to keep the pier caps beneath the floor.

A full recovery of the 3" settlement was achieved during the lift, bringing the house and garage back to level. A pressure of approximately 3500 psi was required to lift the house and surrounding soil, which corresponds to approximately 34 kips per pier lifting force.

After the lift the interior drain tile system was repaired, and the access holes through the slab were patched. After the holes were patched mudjacking was performed to fill the void beneath the slab. Installation was completed during the month of April, 2016. With the foundation repair completed, the basement could be refinished and the home will be safe for years to come.

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