

INSTALLATION GUIDE FOR HELICAL TIEBACKS



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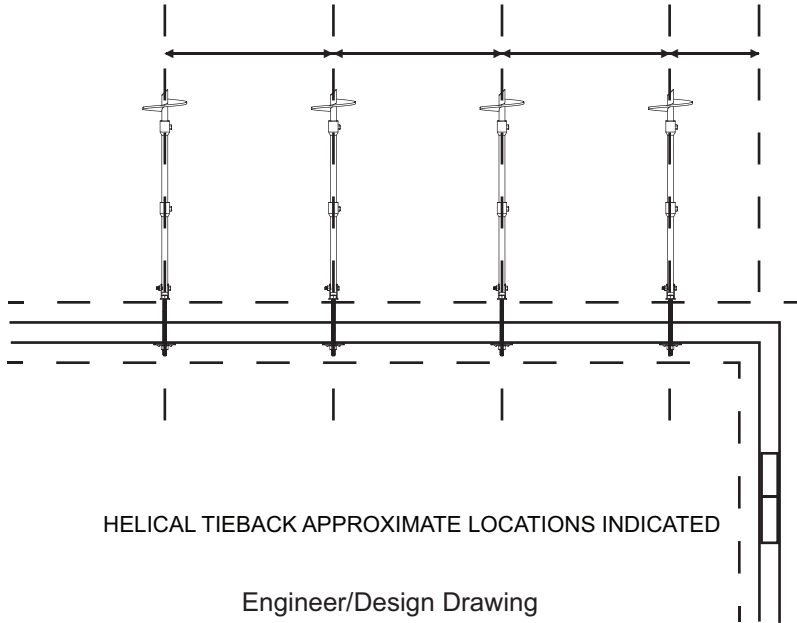
Survey Site

- ✓ Call 811, the national call-before-you-dig phone number, to request that the approximate location of buried utilities be marked with paint or flags so that you don't unintentionally dig into any underground utilities
- ✓ Evaluate and record Benchmarks for your job, (An established elevation i.e. Manhole Cover, Fire Hydrant or Gas Meter)
- ✓ Check local laws and regulations regarding licenses and permits
- ✓ Follow all guidelines set by the Occupational Safety and Health Administration (OSHA)
- ✓ Identify and overcome obstacles
- ✓ Take before and after photos
- ✓ For additional product information visit us at getecp.com



Tieback Placement

- Tieback placements will always be marked on the inside based on the engineer and design drawings
- The first markings should be between 2 and 3 ft from the corner of the wall
- Measure roughly 1/3rd from the top of the wall and mark remaining tiebacks based on project design
- Make sure to indicate all horizontal cracks and adjust tieback placement if necessary



Outside Excavation

- Strip excavation (Trenching) – dig a 3 ft. wide trench along the foundation wall until footing is reached
- Inspect condition of drain tile and protect



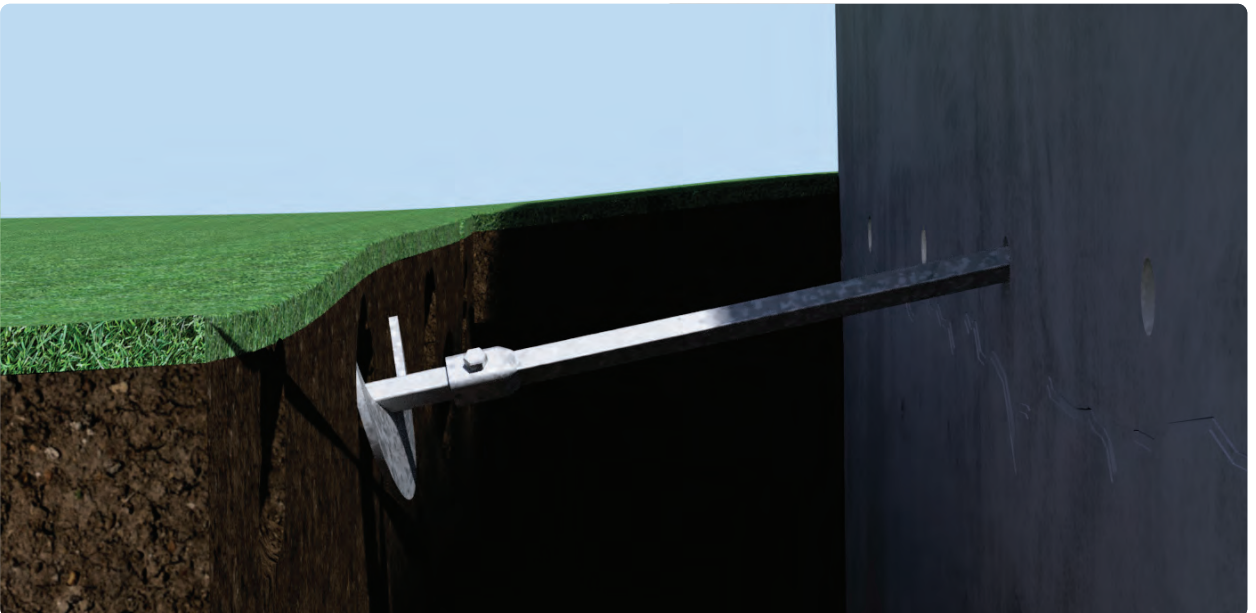
Inside Basement Work Area

- Remove all items from work area
- Create a dust containment area (follow OSHA's confined spaces standard)
- Core drill a 4" hole for each marked location at a 10 to 15 angle and remove debris



Preparation before Installing Tieback

- Bring portable hydraulic gear motor, torque bar, and foot pedal into the basement
- Run hydraulic lines from hydraulic pump to foot pedal
- Attach hydraulic lines from foot pedal to gear motor
- Turn on hydraulic pump and engage flow
- Place helical extension through core hole and bolt to the helical lead



Installing Tiebacks

- Attach the gear motor and torque arm to the helical anchor
- Advance helical tieback with correct angle and adjust torque arm when needed
- Keep torque arm just slightly ahead of gear motor
- Stop when tieback reaches roughly 12" from the wall



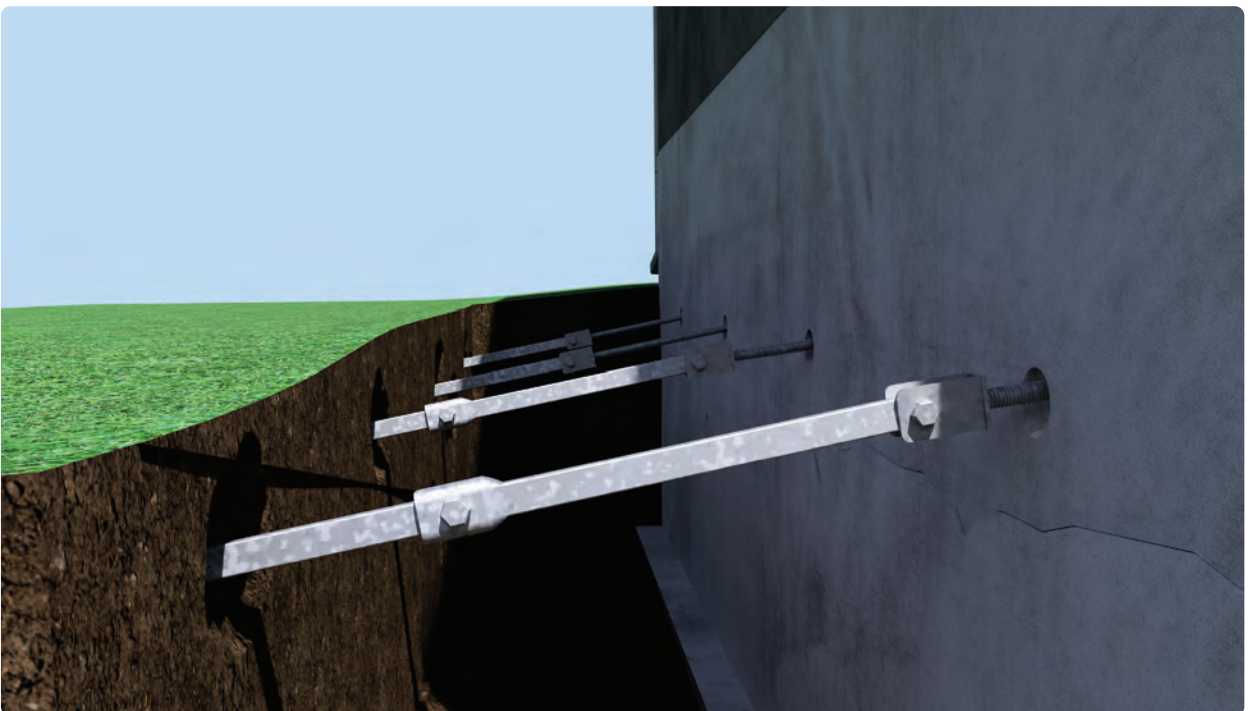
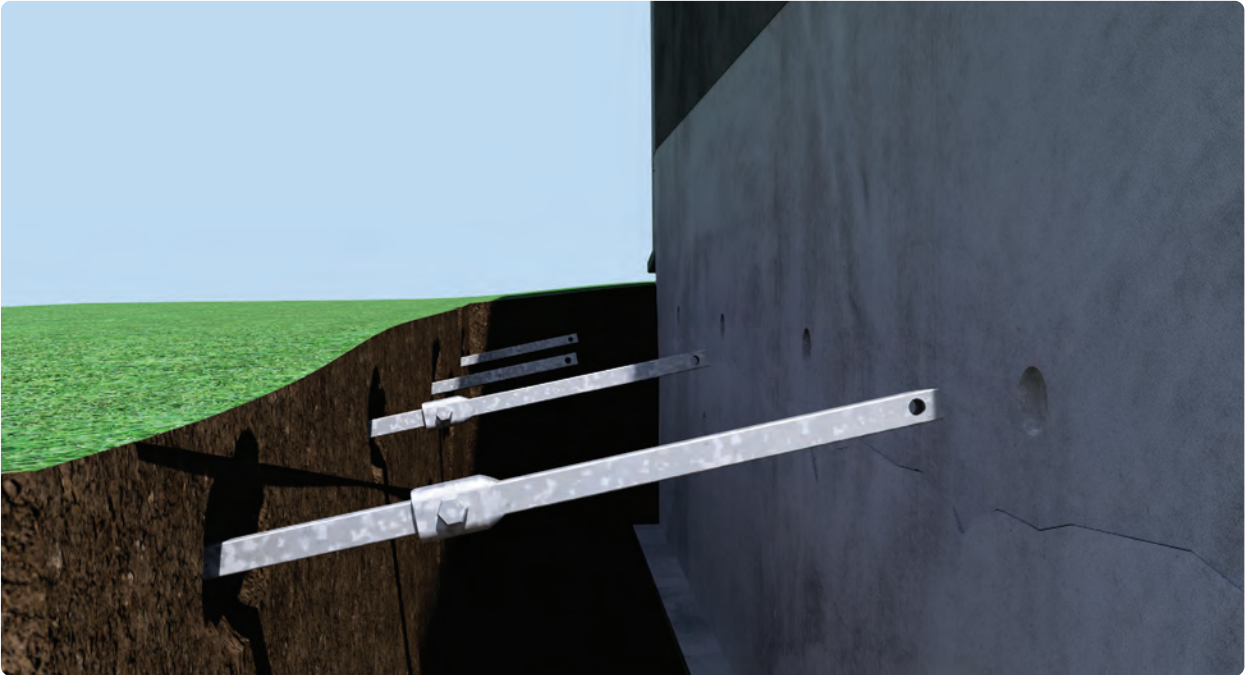
Installing Tiebacks

- Remove gear motor and torque arm from the helical anchor
- Add helical extension and bolt
- Connect gear motor and torque arm to the helical extension and advance until desired torque is maintained for a minimum of 3 ft.



Termination of Completed Tieback

- Remove gear motor and torque arm from tieback extension
- Install and bolt the tieback knuckle (transition) to the driven helical anchor from the outside
- Place the threaded rod through the 4" hole then screw into the tapped helical knuckle (transition)



Installation of Inside Wall Plate

- Slide wall plate over the coil threaded rod
- Add 4" x 6" washer
- Attach nut and tighten snug with wrench

Note: Bevel washers are available



Straightening the Wall

- Place adjustable screw or hydraulic jacks to lift house from foundation wall
- Use concrete anchors to tie the footing to the foundation wall from the outside
- Take a string line and tightly press it from corner to corner of the wall



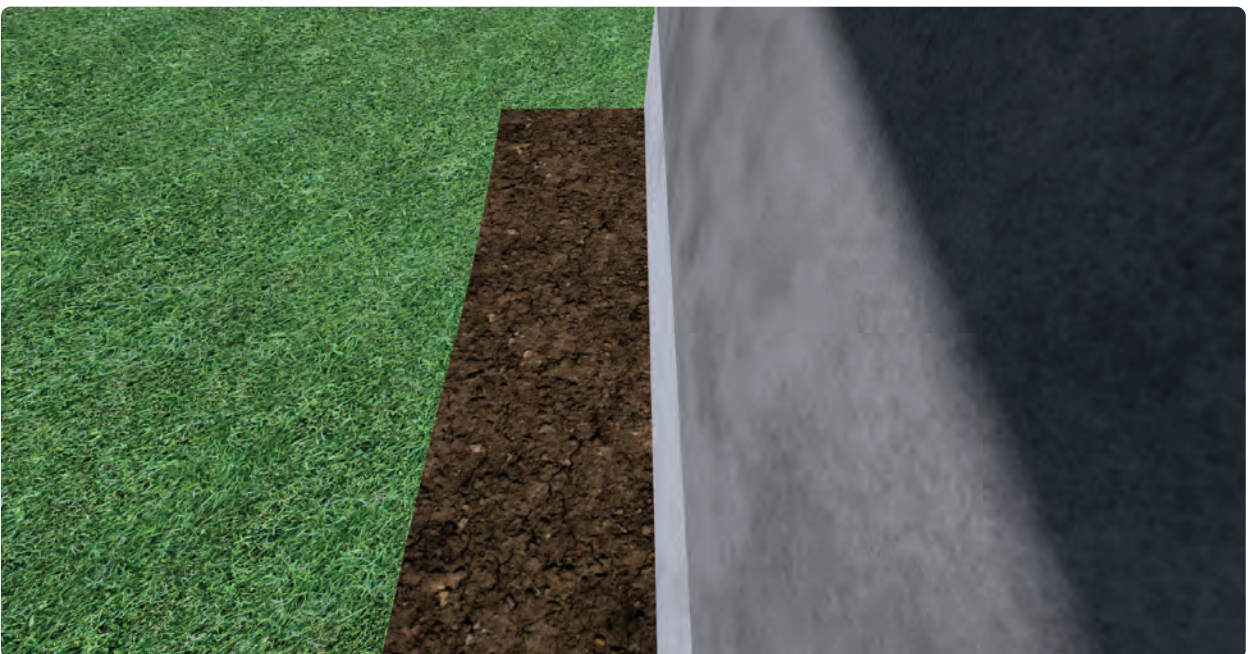
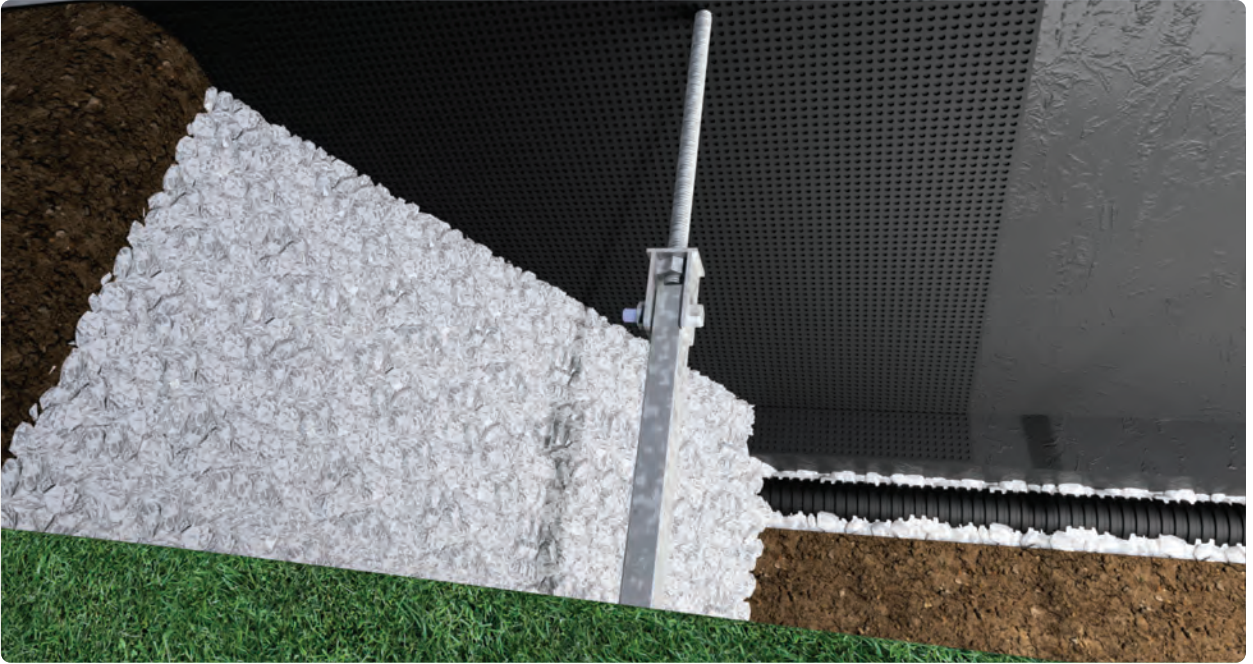
Straightening the Wall

- Tighten each helical tieback until wall is positioned back to normal
- Release adjustable screw or hydraulic jacks until the house is evenly positioned on the wall
- Patch and seal the 4" core hole from the outside



Waterproof and Backfill

- Repair all cracks with hydraulic cement or crack repair product
- Inspect drain tile for damage, replace as needed
- Apply applicable waterproofing membrane
- Apply Dimple Board
- Backfill with clean rock then add 12" of topsoil for landscaping



Inspections and Sign-Off on Completed Work

- Remove all house jacks and necessary tools for the job
- Make sure you have fulfilled all contractual agreements for the completed work
- Clean Up





Certified Installer



15612 S. Keeler Terrace
Olathe, KS 66062
Phone: 913-298-6749
Fax: 913-393-0008
Toll Free: 866-467-2746
www.getecp.com