

**ENGINEERED  
SOLUTIONS**

*o f G e o r g i a*

**G E O T E C H N I C A L S E R V I C E S**



# Proposal

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**Gas Inc.**

603 Atlanta Highway SE  
Winder, GA 30680



*A Lifetime of Support*

2260 Northwest Parkway Suite H Marietta, GA 30067  
ofc. 678.290.1325 fax 770.956.7403 www.esogrepair.com

July 5, 2017

Timothy,

I would like to take this opportunity to thank you for choosing Engineered Solutions to provide you with a quote for your foundation repair needs.

Jay Eastland, Luis Cuevas, and I have a combined 50 years of experience in the foundation and waterproofing business. We have many products at our disposal, which allow us to customize a repair to your specific need. We are accustomed to working with engineers in our area and will be glad to furnish some recommendations should the need arise.

Engineered Solutions of Georgia strives to make it as easy as possible for you to do business with us, we accept most major credit cards, offer six months same as cash and several 100% financing options. Once you have made the decision to work with ESOG on your project we will do everything in our power to insure your satisfaction.

We are committed to being very accessible through the repair process and the bid process as well. We very much look forward to working with you in the near future and would be glad to answer any questions. Please feel free to contact either one of us at the office or try the cell numbers listed below. We also invite you to visit us on the web <http://www.esogrepair.com>, see our reviews on Kudzu.com ([click here](#)), our third party customer service audit conducted by guild quality ([click here](#)) and our A rating with the Better Business Bureau ([click here](#)).

Yours truly,

Chuck Irby

Jay Eastland  
404-754-4689  
Luis Cuevas  
678-654-4244



# The ESOG Advantage

click on each icon to see more information



Guildmaster Award 2014, 2015  
Service Excellence Award 2012, 2013  
Best of Awards 2011, 2012, 2013, 2014



Contractor Award  
Best of 2012, 2013, 2014, 2015



Super Service Award  
2010, 2011, 2012, 2013, 2014



Verified Foundation Repair Contractor  
2010, 2011, 2012, 2013, 2014, 2015



Five Star Rated Contractor  
2010, 2011, 2012, 2013, 2014, 2015



Preferred Contractor  
2010, 2011, 2012, 2013, 2014, 2015



# ENGINEERED SOLUTIONS

o f G e o r g i a

2260 Northwest Parkway • Suite H • Marietta, GA 30067 • 678-290-1325

## Commercial Contract for Services

Date of Issue: **7/5/17**

Customer Information

Name: **Timothy Henson Gas Inc C-636**  
 Address: **603 Atlanta Hwy SE**  
 City: **Winder** State: **GA** Zip: **30680**  
 Phone: **(770) 689-9745**  
 Cell:  
 Fax:  
 Email: **Thenson@gasinc.com**

Jobsite Information

Contact Name: **Timothy Henson Gas Inc C-636**  
 Address: **603 Atlanta Hwy SE**  
 City: **Winder** State: **GA** Zip: **30680**  
 Phone: **(770) 689-9745**  
 Cell:  
 Fax:  
 Email: **Thenson@gasinc.com**

**ENGINEERED SOLUTIONS OF GEORGIA PROPOSES TO FURNISH AND INSTALL THE FOLLOWING SCOPE OF WORK:**

To provide and install a "Design/Build" foundation stabilization program.

**INSTALL FOUNDATION PIERS:**

1. Have utilities marked by locating service. Locating service marks from street to meter. If any private utilities are suspected in the work area, a private locating service must be contracted by owner. ESOG may provide recommendation upon request.
2. Excavate area to expose existing concrete footing.
3. Prep footing and attach galvanized foundation brackets for each pier under center load of footing.
4. Drive foundation piers up to 21' through poor soil to load bearing strata (Should additional depths be required beyond 21' to achieve the required load capacities, an additional charge of \$28.00 per lineal foot beyond 21' shall be added to the contract total)
5. Transfer load to piers to stabilize foundation against any further settlement.
6. Secure piers and backfill holes.
7. Clean work area and remove all work related debris.

| Payment Schedule    |             |
|---------------------|-------------|
| Deposit             | \$6,575.00  |
| Due Upon Completion | \$19,725.00 |

**Total Contract Amount \$26,300.00**

Quotation valid for 30 days from the date of issue. Contract subject to terms and conditions printed on the accompanying addenda.

**Presented by ESOG**

**Accepted by the Customer**

ESOG Signature

Date

Customer Signature

Date

Chuck Irby

Print Name

Timothy Henson Gas Inc C-636

Print Name

## Terms & Conditions of This Contract

Customer: Timothy Henson Gas Inc C-636    Jobsite Address: 603 Atlanta Hwy SE , Winder, GA 30680

Date of Issue: 7/5/17

### PAYMENT TERMS

Payment terms shall be as stated in this proposal. Payment is due in the form of cash, check, credit card or money order. The customer hereby expressly agrees and consents to ESOG's presentation of and request for payment of any check or other payment order issued to ESOG by the customer by any commercially reasonable electronic means in accordance with applicable provisions of the Uniform Commercial Code and the customer further authorizes any bank or other financial institution on which any such order is drawn or through which such order is payable to make payment pursuant to such order directly to ESOG or for credit to ESOG's account by electronic funds transfer. ESOG may apply the customer's payment against any open charges at ESOG's sole discretion. The customer agrees to pay ESOG on past due accounts a monthly interest charge equal to the maximum interest charge permitted by the law governing the account between the customer and ESOG. The customer and ESOG further agree that, where required by law to specify such rate, a rate of one and one-half percent (1.5%) per month shall apply. The interest rate provided hereby shall continue to accrue after ESOG obtains a judgment against the customer. The customer agrees to pay ESOG all costs, expenses of collection, suit or other legal action, including all actual attorney's and paralegal fees incurred pre-suit, through the trial, on appeal or in any administrative proceedings brought about as a result of the commercial relationship between them. Any cause of action which ESOG may have against the customer may be assigned by ESOG or any affiliate thereof without the consent of the customer.

### CONTRACT TIME

It is understood that the work is to be performed in one continuous operation unless otherwise specifically agreed.

### PERMITS

The customer shall provide permits for all work.

### CLEAR WORK AREA

This includes removal by the customer of any and all obstructions and/or impediments in the work area. This includes but is not limited to: carpet, floor covering, stairs, counters, counter tops, cabinets, shelves, plumbing, appliances, furniture and fixtures. A workspace of at least 36" from each wall and a clear path of ingress and egress for personnel and equipment to and from the work area shall be provided.

### ACCESS TO WORKSITE, WATER AND ELECTRICAL POWER

The customer shall provide access to the work area, water for mixing concrete (if necessary) and cleanup and electricity. If no power is provided, the customer will be responsible for any cost incurred in providing power. In the event of circuit overload, access to the fuse or circuit breaker box (electrical service) must be provided. In the case of fuses, the customer must provide an ample supply of replacement fuses in the event of circuit overload. If pumps are required, the customer shall be responsible for providing an electrical outlet within 25 feet of the pump.

### PRE-BID INFORMATION

Information used in planning the work covered in this proposal has been furnished by the customer and ESOG assumes no responsibility for its accuracy. If conditions are not in accordance with the information furnished to ESOG by the customer or others, the recommended procedures and scope of work in this proposal may not be accurate and any additional expenses incurred by ESOG as a result of this difference will be reimbursed to ESOG by the customer at cost plus 15%.

### PRIOR NEGOTIATIONS

All prior negotiations, proposals, correspondence and memoranda between the customer and ESOG are superseded by this proposal. This proposal, in its entirety, shall be made an integral part of and incorporated into any purchase order, proposal or contract agreement resulting from it. This proposal is subject to revision in scope, price and terms if not accepted in writing by the customer within 30 days.

### TERMINATION OF CONTRACT

If conditions beyond ESOG's control make it impossible for ESOG to perform as specified and the customer elects to terminate the contract, ESOG will be entitled to reimbursement in full for all ESOG's costs including mobilization, labor, materials and overhead plus a reasonable profit for all work performed up to the date of written notification of termination by the buyer.

### LIEN RIGHTS

It is mutually agreed that ESOG shall retain any and all rights conferred upon it by the lien statutes of the state in which the jobsite is located and of the federal or territorial government.

### SURVEYS AND UTILITY LOCATE

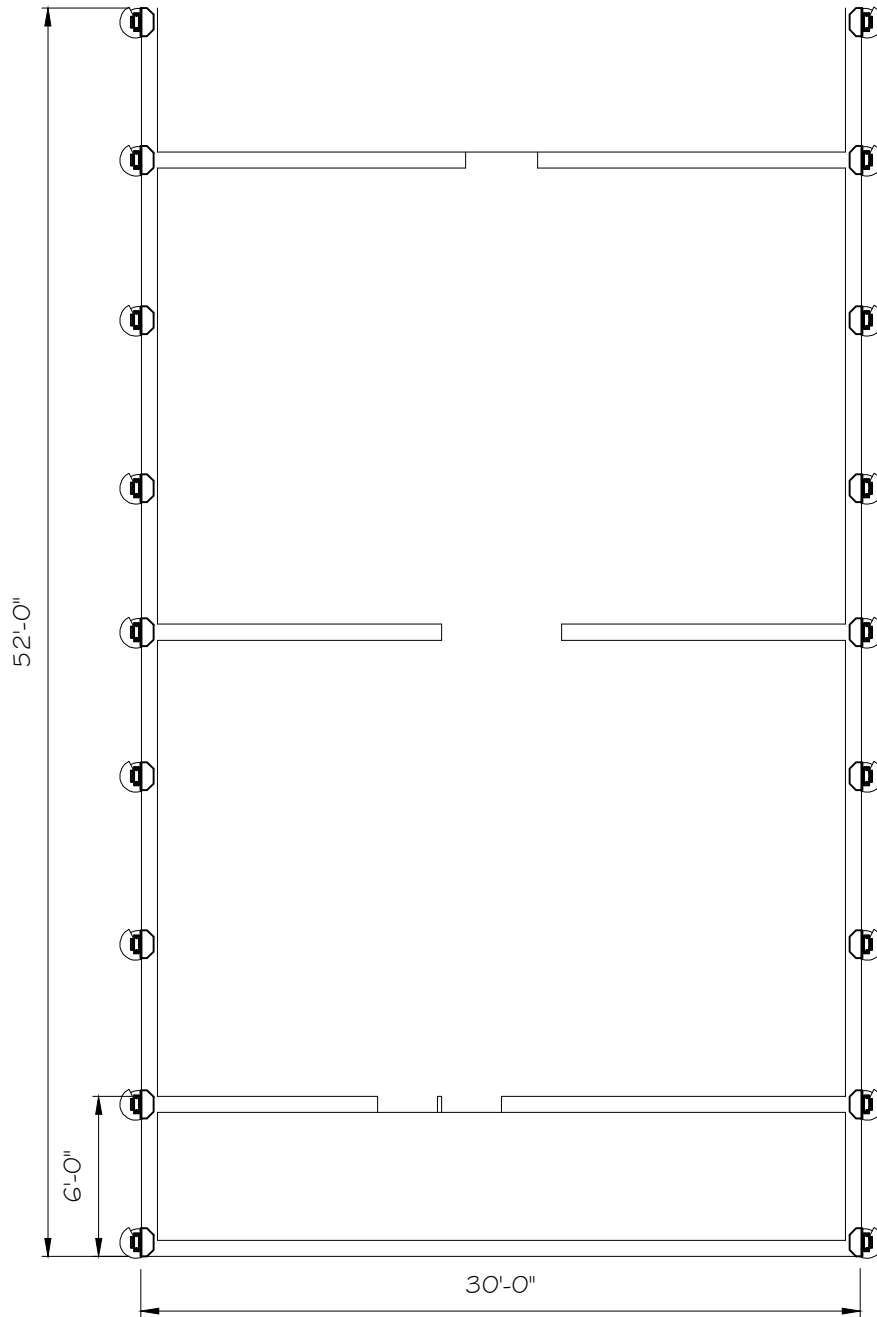
The customer shall provide surveys to locate and stake for all pile locations and top of pier elevations and shall locate all underground utilities.

### NORMAL CONSTRUCTION

This contract assumes normal construction, concrete thickness and footing depth (no more than three feet below interior slab) and further assumes compliance with applicable building codes. If unforeseen subsurface conditions are encountered additional charges may be levied (at the contractor's option) to prepare the area for install

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Customer Signature



LEGEND



INDICATES LOCATION OF NEW HELICAL PIER w/ FOUNDATION BRACKET

# REPAIR PLAN

603 Atlanta Highway SE  
Winder, GA 30680

DRAWN BY  
RS

SCALE  
N.T.S.

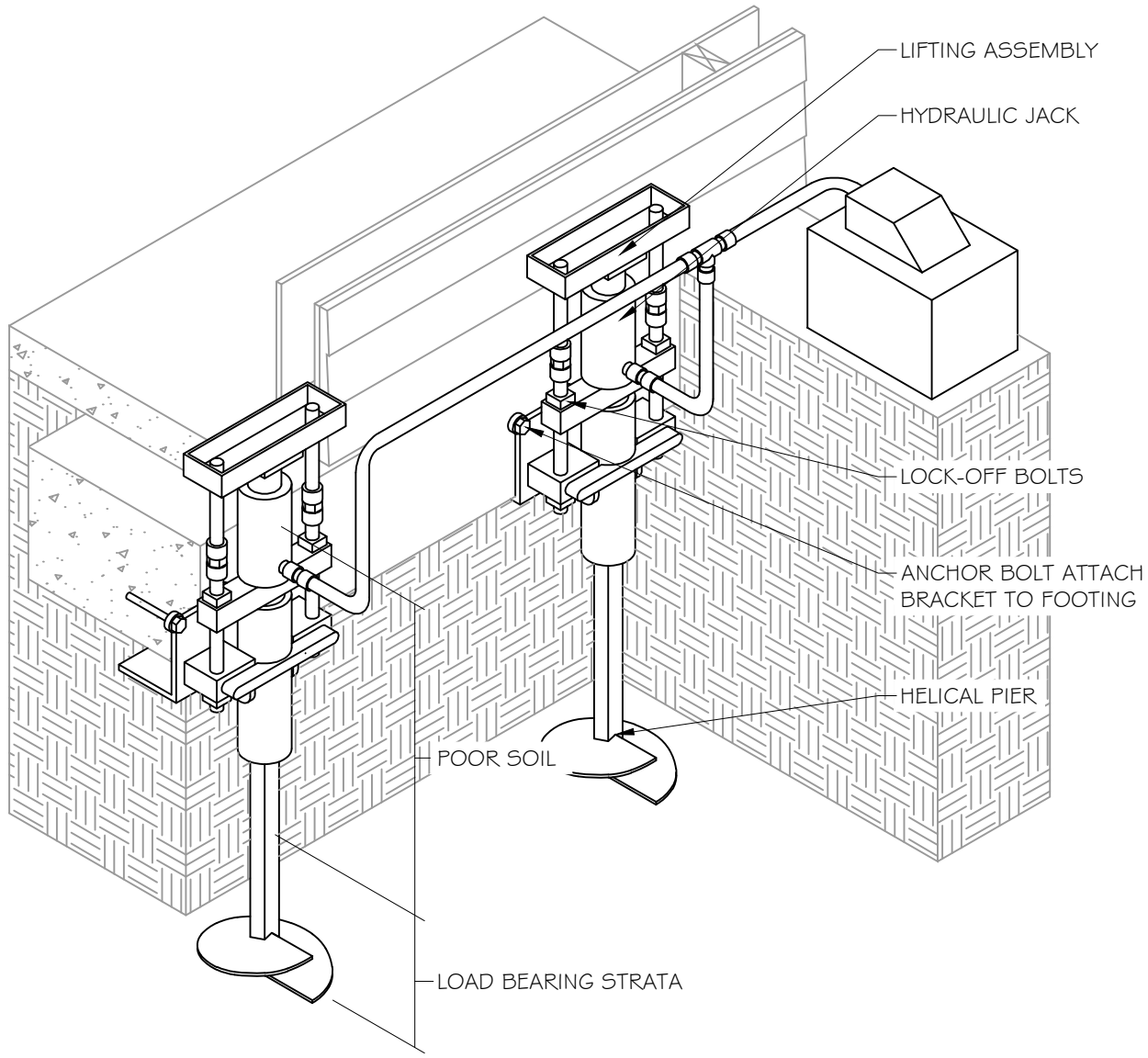
DATE  
7/7/2017

DRAWING NUMBER  
SK-1

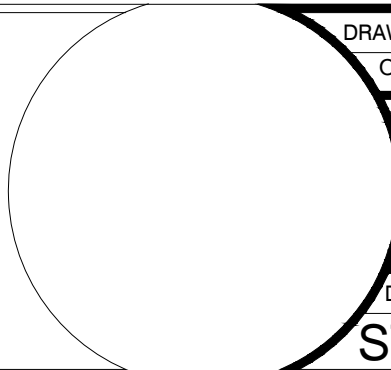


**ENGINEERED SOLUTIONS**  
of Georgia  
Foundation Repair & Waterproofing

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**RETROFIT  
PIER**



|                |         |
|----------------|---------|
| DRAWN BY       | OC      |
| SCALE          | N.T.S.  |
| DATE           | 3/27/15 |
| DRAWING NUMBER | ST-1    |

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Foundation Repair & Waterproofing

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# IDEAL

Group



HELICAL PILES FOR LOADS  
UP TO 700 TONS





Our team is often called on to fabricate custom brackets and load transfer devices. Below are examples of brackets which are manufactured by IDEAL. Give us a call if you don't see what you're looking for and we can design the perfect bracket to meet project requirements.



PIPELINE BRACKET



BOARDWALK BRACKET



CLEARSPAN BRACKET

# GET FAMILIAR

The unit is called a **helical pier** if it resists compressive loads, which are usually downward. It is called a **helical anchor** if it resists tensile loads, which are usually upward or inclined. Many helical units function as both piers and anchors.

A helical unit is installed by simply screwing it into the ground. The central shaft may be round or square and it may be hollow or solid. Hollow (pipe shafts) are often preferred, because they provide a greater section modulus for the same cross-sectional area of steel. Pipe shafts, as compared to solid shafts, generally provide greater resistance to installation torques and buckling under compressive loads.

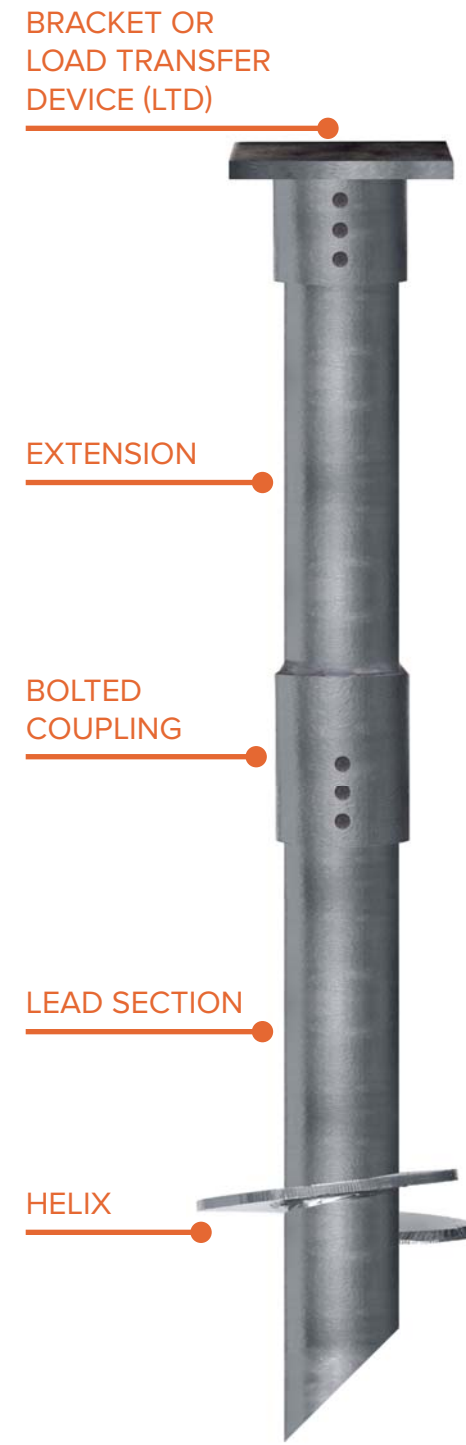
A typical helical unit is shown to the left. It consists of a central steel shaft, to which can be attached one or more steel helices. The central shaft can be lengthened by adding extension pieces as necessary.

Pipe shafts range anywhere from 2 7/8" to 36" in diameter, and helices range anywhere from 5" to 48" in diameter and are seldom less than 3/8" thick.

Experience and theory have combined to suggest that the preferred spacing between multiple helices is equal to 3 helix diameters of the preceding helix.

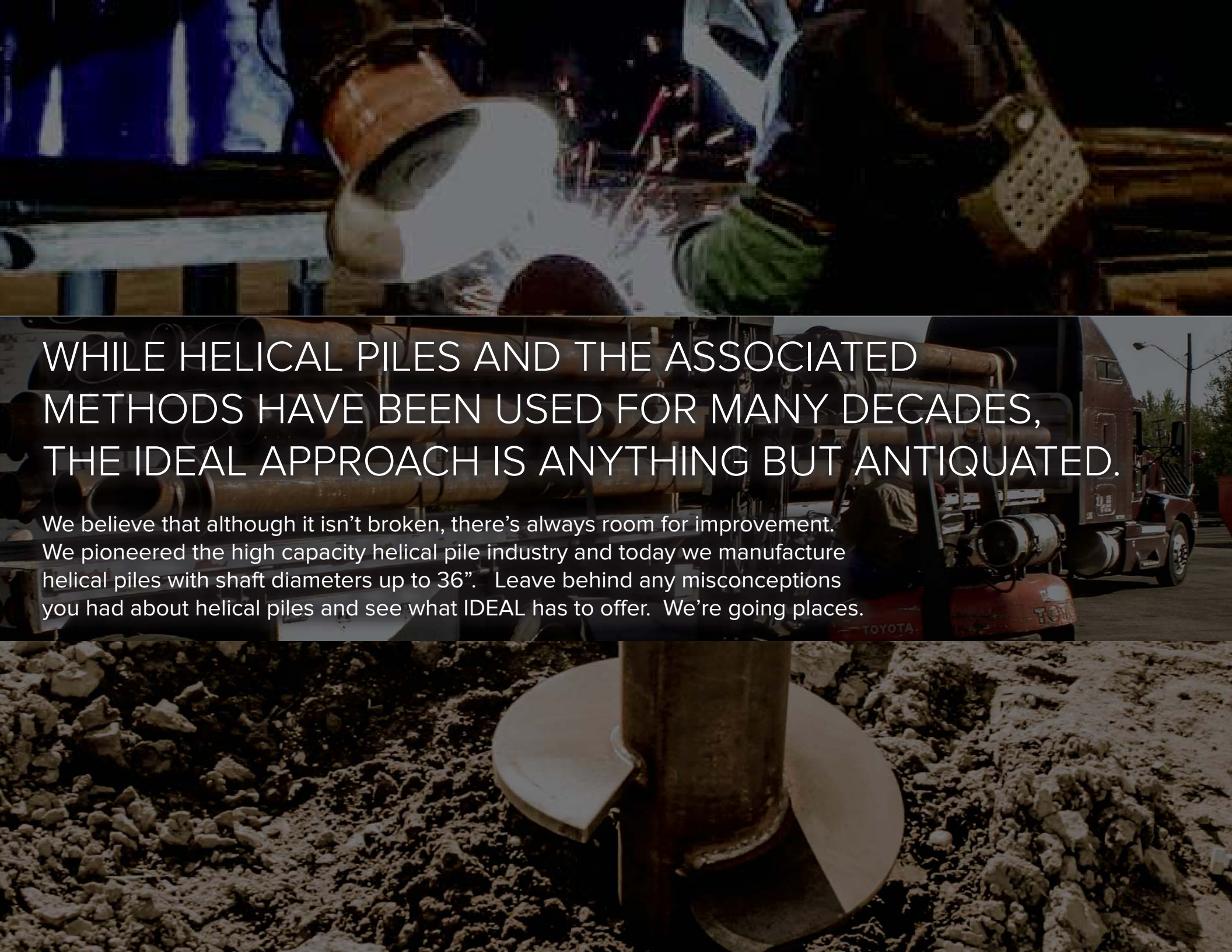
The final component to the helical unit is the Load Transfer Device (LTD). This is used to transfer the tension or compression load from the structure to the helical unit.

Simply put, the helical unit transfers tension or compression load to competent soil strata below incompetent soils.



WHILE HELICAL PILES AND THE ASSOCIATED METHODS HAVE BEEN USED FOR MANY DECADES, THE IDEAL APPROACH IS ANYTHING BUT ANTIQUATED.

We believe that although it isn't broken, there's always room for improvement. We pioneered the high capacity helical pile industry and today we manufacture helical piles with shaft diameters up to 36". Leave behind any misconceptions you had about helical piles and see what IDEAL has to offer. We're going places.





# APPLICATIONS

A helical pier is a deep foundation. Its purpose is to transfer a structural load to deeper, stronger, and less compressible materials bypassing any weaker and more compressible materials that would be unsuitable for the support of conventional shallow foundations.

As a deep foundation, a helical pier should be considered for most applications that would call for a driven pile, drilled pier, or mini pile.

Helical piles and anchors are usually a great foundation solution to any of the applications below whether it's a new build or existing structure.

**COMMERCIAL BUILDING REMEDIATION**

**SUBSTATIONS**

**TIE-BACKS/ANCHORS/RETAINING WALLS**

**SANITARY PIPELINE SUPPORT**

**LIGHTING <50FT**

**BULKHEADS**

**TILT-UP WALL ANCHORS**

**SOUND WALLS**

**SHORING PIPELINE**

**WORK CAMP FOUNDATIONS**

**BRIDGES/BOARDWALKS/DOCKS**

**GUY LINES/WIRES**

**TOWERS – QUAD BASE**

**ROADWAY SIGNAGE TRAFFIC SIGNALS**

**TANKS AND SILOS**

**TOWERS – MONOTUBE**

**BILLBOARD/SIGNAGE GENERATOR BASES**

**UNDERWATER SUPPORT**

**UTILITY ANCHORING**

**TIE-DOWNS/MOORINGS**

**MACHINE BASES**



**CELLULAR TOWERS**



**PIPE RACK SUPPORT**



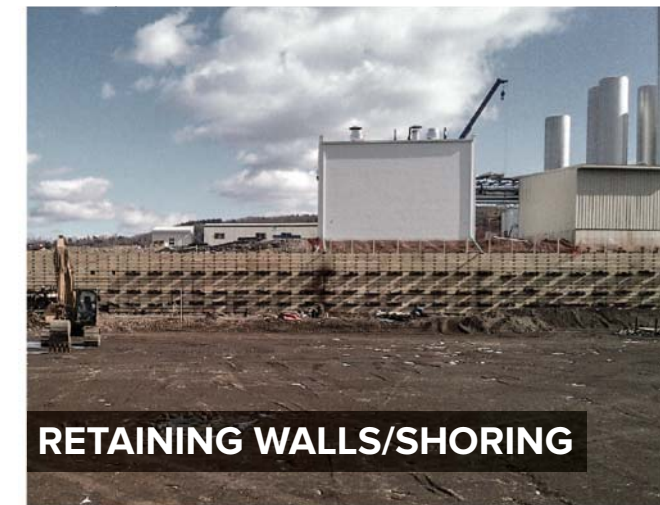
**COMMERCIAL UNDERPINNING**



**BRIDGE REMEDIATION**



**MUNICIPAL BOARDWALKS**



**RETAINING WALLS/SHORING**



**NEW CONSTRUCTION**



**INTERIOR NEW CONSTRUCTION**



**RETAINING WALLS**



**CLEARSPAN STRUCTURES**



**MACHINE BASES**



**SANITARY PIPELINE SUPPORT**



# ADVANTAGES

For many applications helical units may offer significant advantages over other systems. Some of these include:

## WIDE RANGE OF LOADS

A wide range of allowable loads. Anywhere from 10-700 tons to be exact.

## VERSATILE INSTALLATION ANGLES

Adaptability to a variety of installation angles to accommodate compression, tension, lateral, and overturn.

## LESS DEPTH = MORE MONEY

Lower cost than driven or drilled piles. While the cost per foot may be higher, piles can be installed to lesser depths and reach the same required capacities.

## RAPID INSTALLATION

Not quite lightning fast, but it's hard to beat the ease and speed of installation.

## MINIMAL EQUIPMENT

Minimal support equipment is needed for installation. A drive head, torque indicator, and a few other components and you're up and running. Just by the way, IDEAL offers the most complete drive head packages in the industry.

## GREAT FOR LIMITED ACCESS

Helical piles are great for low-headroom and other limited-access areas inside, underneath, and in between existing structures.

## SIMPLE CUTOFFS

With a band saw or torch, on-site cut-offs are a breeze.

## NO CONCRETE DELAYS

No concrete-related delays, and we all know time is money...

## INSTALL IN EXTREME WEATHER

Helical piles can be installed in any weather except thunderstorms and whatnot. We play it safe, and you should too.

## LIMITED EARTHWORK AND NO SPOILS

Little or no earthwork or spoil material is created during helical pile installation. This is a huge advantage when working at contaminated sites.

## MINIMAL VIBRATION AND NOISE

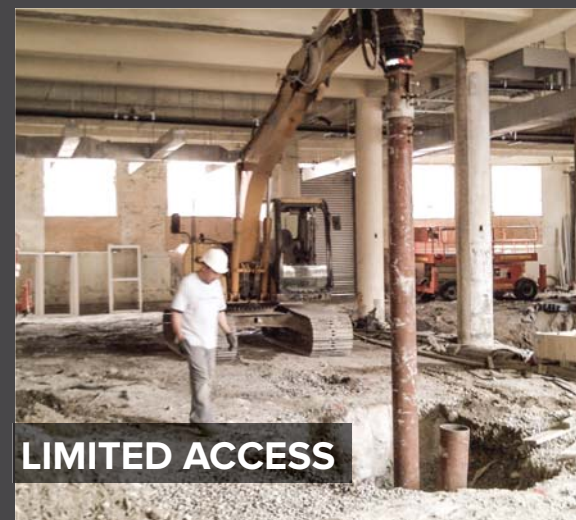
With minimal vibration and noise, helical piles are a perfect fit for historic structures and other urban projects surrounded by fragile people and buildings.

## TEMPORARY INSTALLATIONS

Easily removed and reused in temporary applications such as shoring and movable structures.

## LOW MOBILIZATION COST

Very low mobilization and demobilization costs. Look at the real costs of installing alternates and you might be as surprised as we were when we did the math.

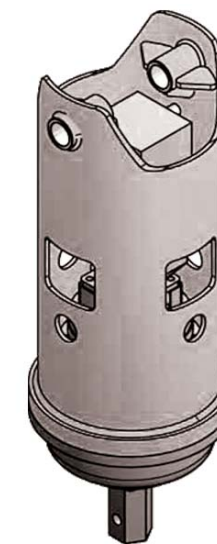


# INSTALLING

A helical screw pile is rotated into the ground by using a hydraulic drive head, powered by an excavator, pile driving rig, or any other equipment with hydraulic capability. IDEAL requires installers to monitor installation torque and pile alignment during the installation process. This is required for a few reasons.

First, it is important to have a qualitative assessment of the soils being penetrated at various depths. Using a graph, the recorded installation torque and depth is interpreted against the existing soil data to obtain a correlation that enables a simple verification strategy to be determined.

The soil data is interpreted against the installation torque and a correlation is obtained to maintain the integrity of the helical screw pile during installation as well as mitigate damage by exceeding the allowed torsional strength to any of the pile's components. Every helical screw pile has a maximum stress level that must not be exceeded in order to avoid compromising the structural integrity of the helical screw pile unit.



# THE HISTORY

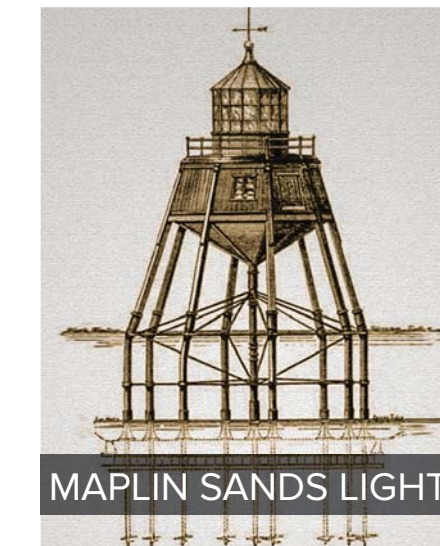


The first helical screw pile was invented in the 1830's by a blind Irish marine construction engineer named Alexander Mitchell. His design proved to be a major improvement over traditional straight pile designs, so Mitchell and his son promptly patented the cast iron screw pile. In 1840 the first screw piles were installed to support the Maplin Sands lighthouse at the mouth of the Thames River. This innovative design caught on and made its way across the pond quickly and before long most of the lighthouses in the Mid-Atlantic region were being built on helical pile foundations. There were more lighthouses built on helical pile foundations in Chesapeake Bay than anywhere else in the world. A total of Forty-two helical screw pile lighthouses were built on Chesapeake Bay between 1850 and 1900.

The helical screw pile technology didn't stay on the east coast. Over the next few years, helical screw pile lighthouses could also be found in the Great Lakes Region and the Gulf of Mexico.

The foundation of a typical screw pile lighthouse consisted of one central pile installed in the center and then flanked by another six or eight piles around the perimeter. This design increased the anchoring properties and the bearing power of the helical screw piles. These early helical screw piles were often installed by using large torque bars and the power of men, horses, or oxen.

Alexander Mitchell's helical screw pile design is just as effective today as it was in the late 18th century and continues to be installed around the world.







# OUR MISSION

To provide our clients and associates with proprietary technology, products, equipment, and support, ensuring excellence in the design and performance of deep foundation and earth anchoring projects.



## MANUFACTURER'S 50 YEAR WARRANTY

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Ideal Foundation Systems (IFS) warrants, from the date of IFS product installation, against any defects in manufacturing and product workmanship on IFS steel piles, load transfer devices and hardware when installed in conformance with manufacturer recommendation by a certified IFS contractor. IFS assumes that a responsible entity other than IFS has performed a corrosion analysis from which the job design requirements were generated. IFS is responsible for coating application to its product in accordance with IFS documents submitted for this project and is not responsible for corrosion assessment. IFS will furnish product replacement for any IFS products should they fail to function due to defects in quality or manufacturing workmanship. All replacement materials will be furnished FOB from the point of manufacture. This product warranty is provided by the manufacturer and does not include installation or service of the product. Warranty of installation and service shall be defined and furnished by the Certified IFS Contractor as required in contract documents.



# Structural Warranty

**ENGINEERED SOLUTIONS** of Georgia, Inc. warrants the structural repairs completed at

## Sample

to be free of defects in workmanship and materials for the the Life of the Structure following the completion of the work, provided all terms of the contract have been met. This covers labor and materials under direct control of Engineered Solutions of Georgia, Inc. Products of other suppliers (pier steel, brackets, fasteners, etc.) are covered by that manufactures separate warranty. This warranty is transferable to successive owners provided that Engineered Solutions Inc. is notified in writing, within thirty days of the date of transfer. If any additional movement occurs counter to the repair, other than movement caused by earthquake, ground shifts, server wind, flood, slope or hill movement, extreme change in the water table (sink holes or upheaval), or other Acts of God or similar man made conditions included but not limited to, explosions, mining operations, abandonment of building, improper drainage, adjacent construction, improperly supported additional construction, etc. Engineered Solutions of Georgia, Inc. will at no cost to the homeowner, correct any defects in workmanship or materials in order to stabilize the area. The foregoing is our sole warranty. All other warranties are excluded. The owners' sole remedy shall be for correction of any defect in workmanship or materials as set forth above. In no event shall Engineered Solutions of Georgia, Inc. be liable for consequential damages regardless of basis of claims.

Jay Eastland - Owner

\_\_\_\_\_  
Date of Warranty

Luis Cuevas - Owner



# CORE VALUES

## UNDERSTANDING

- It is important to us that our customers fully understand the issues they are having with their home and why the problems have occurred.
- We will create a customized plan that will fully address the issues and insure that our customers completely understand what we will be doing and how it will be done.

## TRUST

We want to earn the trust of our customer in three ways:

- **COMMUNICATION** – From the first phone call to the last we will keep our customers informed of their project status and changes as we work together.
- **EXECUTION** – From the project design to the completion of the work we will do exactly what we have contracted together to accomplish.
- **WORKMANSHIP** – Every project is custom designed to correct the issues and we will stand behind it with a warranty that is stated in the contract. We will also send out warranty certificates that are transferable with the property.

## RESPECT

We consider our customers friends and family and we treat them that way. We will respect their time by confirming all appointments and arriving on time. We will treat their home like our own while performing all work and we will dress and speak professionally at all times. We ensure that all work related debris is removed when the job is completed.



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