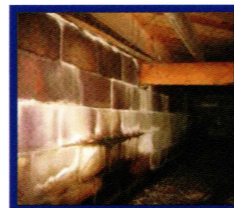
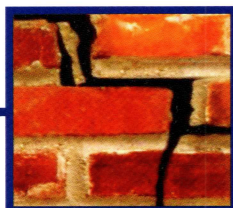


AMERICAN FOUNDATION REPAIR

Since 1986



- ☑ RAISE OR STABILIZE SINKING FOUNDATIONS
- ☑ REPAIR REPLACE OR STRAIGHTEN BOWED WALLS
- ☑ BEAM AND COLUMN REPAIR AND REPLACEMENT
- ☑ SHORING UNDERPINNING FOR EXCAVATIONS
- ☑ LEVEL SAGGING OR SLOPING FLOORS
- ☑ 20 YEARS TRANSFERABLE WARRANTIES



TOLL FREE 1-800-644-1900

"NO ONE HAS MORE SATISFIED CUSTOMERS"



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FOUNDATION REPAIR.net**
Since 1986



Signs of a Sinking Foundation

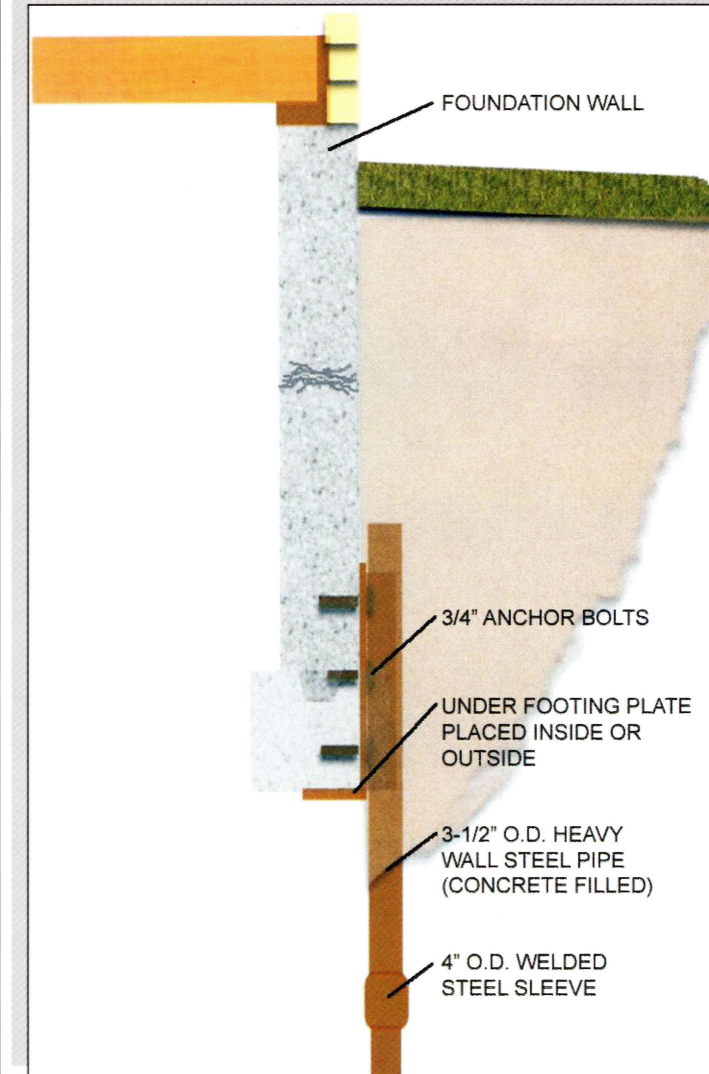
- Stair step cracking in bricks or mortar joints
- Doors or windows stuck and hard to operate
- Sagging and uneven concrete or wooden floors
- Vertical or Diagonal cracks in foundation walls

Reasons why a Foundation Sinks

- Soil desiccation usually caused by drought
- Low bearing strength soil under existing footings
- Improper footings or in some cases no footings exist
- Poor construction due to compacting, grading, and or poor drainage problems

The Permanent Repair Solution

- American Foundation Repair uses only Heavy Duty Steel Pipe Piles custom fabricated on-site for the Permanent Repair Solution
- Our **Quality Products and Customer Service** have been and will always be **1st Priority**
- Our **Steel Pipe Pile System (push pier)** is the most recognized and reliable system in the Chicagoland area
- Our Steel Pipe Pile System is approved and conforms to all residential and commercial structural building codes
- We can Guarantee to raise your foundation back to level in most cases and clearly state it in our contractual proposal
- The Permanent Repair Solution is our Steel Pipe Pile System with a 20 Year Transferable Warranty



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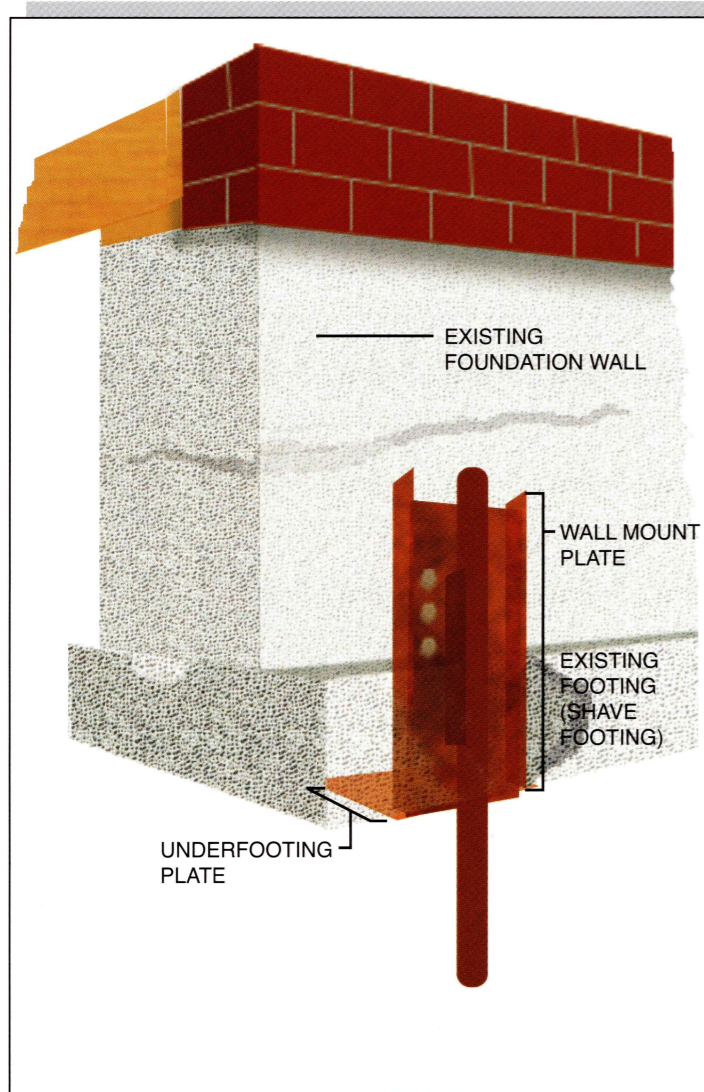
Brief explanation of the components and installation process

First we excavate a 4'x4' hole usually by hand to minimize total disturbance to your landscaping, for each Steel Pipe Pile (push pier) location. The pipe (push pier) locations are 2' to 3' from the corners and can range from 5' and up to 10' from each other, depending on the type of structure, and if we are raising or stabilizing the structure.

We then shave away the part of the footing and place our 1/2" Thick Heavy Duty Steel Bracket or Wall Mount and anchor it with (6) to (8) 3/4" Bolts.

Using a 30 Ton Hydraulic Ram, 3 1/2" Outside Diameter Steel Pipes gets pushed to Refusal Depth, reaching Bedrock or very Hard pan. After Raising the Foundation back to Level or stabilizing it, we will then secure the Bracket and Steel Pipe Piles (push piers) by welding them together.

Finally we will fill the Steel Pipe Piles with concrete and perform a rough grade back fill. Clean work area.



“NO ONE HAS MORE SATISFIED CUSTOMERS”

AMERICAN Foundation Repair Team Experience

- ❖ 150 Years of Combined Foundation Repair Experience
- ❖ 30,000 Push Pier Installations/ Guaranteed Solutions
- ❖ 20 Year Warranty/ Transferable to New Owner
- ❖ Over 20 Years In Business/ Certified & Skilled Crews
- ❖ Family Owned & Operated/ Direct Savings to You
- ❖ Better Quality Products/ Permanent Repair Solutions
- ❖ Thousands of Local Satisfied Customers/ References
- ❖ Licensed & Bonded in the City of Chicago and suburbs
- ❖ Comprehensive Quality Foundation Repair
- ❖ Custom Fabricate Each and Every Single Job
- ❖ Better Service, Better Quality, and Better Materials

30-100 Ton Hydraulic Ram

- 60,000 PSI (Pounds Per Square Inch)
- Allowing us to reach depths of 30'-90' below grade level, onto refusal depth (Bedrock)
Our competition: "charges extra beyond depth's of 30 feet"
- We have the ability to Lift Residential Homes as well as Commercial Buildings (Guaranteed)
Our competition: "Attempts to lift"
- Smooth Hydraulic Ram virtually little noise and no landscape mess
Our competition: "uses an excavator to pound or screw in their piers"

Heavy Duty Steel Bracket

- We use the largest & strongest 90° angle (8" under-footing plate X 22" wall mount)
Our competition: smaller bracket
- Anchored with (3/4") Hilti® Bolts
Our competition: 5/8" bolts
- We use the most anchor bolts per bracket
Our competition: Uses only 2 small bolts
- Our Push Pier System is secured by welding (fusion of two metals) the bracket to pier
Our competition: Uses a nut and bolt tie which with time will loosen and cause failure

Heavy Duty Steel Push Pier

- Upgrade to our dipped Galvanized Push Piers
Our competition: Only coats their pipe

We provide our Customers with:

- Steel Crack Plate(s) at ea. crack
- Sealant of Crack(s) at ea. crack
- Push Pier Depths Beyond 30'
- Drain Tile Replacement or Repair
- Concrete Filled Push Piers
- Lifting of Structure
- Removal of any Bushes
- Removal of any Concrete
- Removal of any Asphalt

Free of Charge

At no extra cost to you

20 Year Transferable Warranty/Certified & Skilled Crews

Over 20 Years In Business/ Certified & Skilled Crews

Signs of a Bowing or Leaning Foundation

- Horizontal crack on foundation wall
- Diagonal crack on the corners
- Bowed foundation wall
- Step ladder cracking on brick forming a pyramid image
- Leaning foundation wall

Reasons why a Foundation Bows or Leans

- Hydrostatic Pressure (Surface water running down foundation walls)
- Overflowing water due to clogged gutters
- Less than 10' extension at ea. Downspout
- Paved areas (concrete patio or driveway)
- Grade level sloping toward house
- Partial Sill Plate (uneven load distribution)

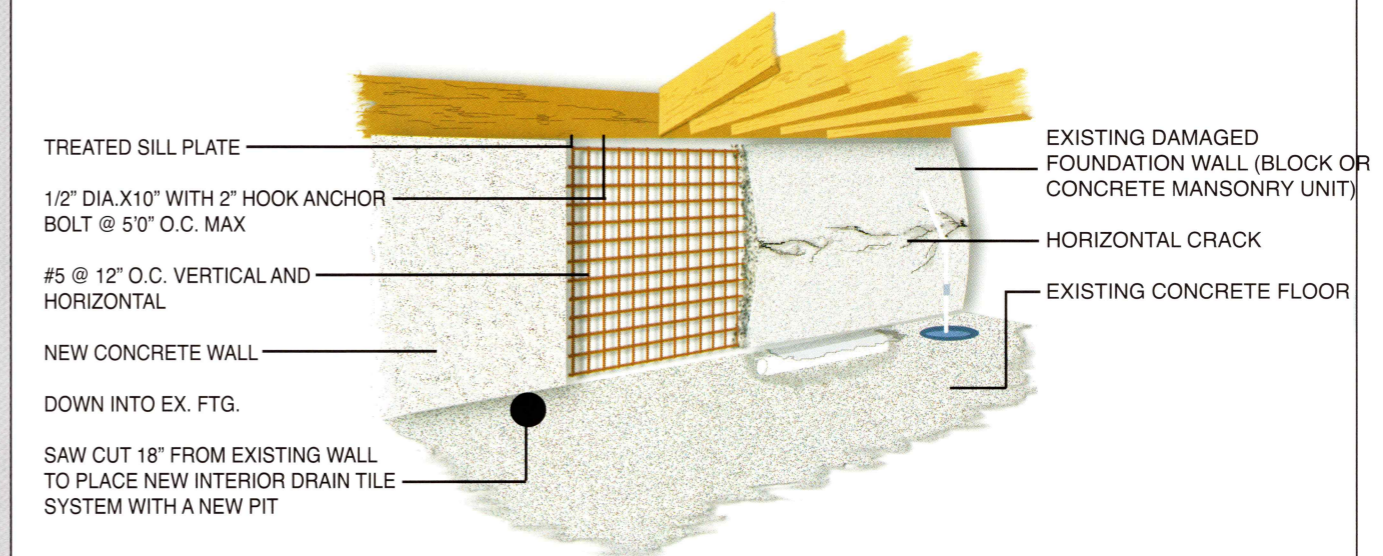
American
Foundation Repair.com

New Foundation Wall Reinforced with Steel

- New 8" Thick Foundation Wall
- Rebar at 8" Center Horizontally & Vertically
- 9 Bag Concrete Ready Mix Per Yard
(Typical CMU Concrete Masonry Unit Wall 3 bag mix per yard)
- New Wider Sill Plate (Even Load Distribution)
- New Drain Tile System with New Sump Pit

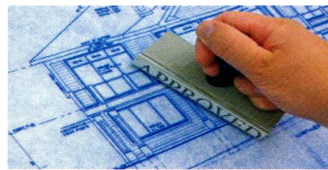
New Retaining Wall Reinforced with Steel

- New 8" Thick Foundation Wall
- Rebar at 8" Center Horizontally & Vertically
- 9 Bag Concrete Ready Mix Per Yard
(Typical CMU Concrete Masonry Unit Wall 3 bag mix per yard)
- New Wider Sill Plate (Even Load Distribution)
- New Drain Tile System with New Sump Pit
- Existing Bowed Wall held in place by the new concrete reinforced retaining Wall
- Absolutely No Outside Excavation needed



Word Definitions

- **Pressure Treated Sill Plate**- The lumber member sitting directly on top of the foundation anchored with bolts
- **Vapor Barrier** - A waterproofing membrane to protect against outside air moisture from coming into the interior space (attached to the foundation wall and directed to the drain tile system)
- **Footing** - The base part of the foundation sitting directly on the soil with a wide width
- **Rebar** - reinforced steel rods (very strong with tension) combined with concrete both can handle very heavy lateral & vertical loads
- **Gunite** - A mixture of dry cement (very strong in compression) and aggregate combined with water at the nozzle, sprayed at high velocity using a pump gun smoothes out evenly to give a nice finish look
- **Drain Tile System** - Uses 3/4" gravel and perforated black pipe both aligned next to the footing running alongside the perimeter connecting to a sump pit (with a submerged pump)



New Vertical Steel I Beams Reinforced with Steel

- Place New Vertical Steel Soldier I Beam
- New Base Plate to get bolted to footing
- New Long Angle Plate to get bolted to Joist
- Structural I Beams to get welded to Base Plate and Long Angle Plate (Our system uses the weight of the house and compressive strength of the footing to reinforce foundation and prevent it from any bowing movement)
- Straighten Out Wall** (Concrete Masonry Unit Walls)
- 15 Year Warranty (Transferable)**
- Absolutely No Outside Excavation needed**
- 1 Day Installation process (in most cases)**
- Year Around Installation**

Our Competition: Uses a Messy & **Hazardous Glue** to paste a **Carbon Material**. Fumes stay entrapped in basement. (**Not Environmentally Friendly**)

The Permanent Repair Solution (Options)

- ✓ **25 Year Warranty (Transferable)**
Option # 1
New Foundation Wall Reinforced with Rebar

- ✓ **20 Year Warranty**
Option # 2
New Retaining Wall Reinforced with Rebar

- ✓ **15 Year Warranty**
Option # 3
New Vertical I Beams Every 5' to 10'

- All Three Foundation Repair Wall Systems are APPROVED and CONFORM to all residential and commercial structural building codes
- We can **GUARANTEE** to straighten out your existing foundation wall in most cases

4"x4"x1/4"x20" LONG ANGLE WELDED OR BOLTED TO FLANGE OR SOLDIER BEAM AND SCREWED TO BOTTOM OF EXISTING JOISTS W/(2) 1/2" DIA. LAG SCREWS

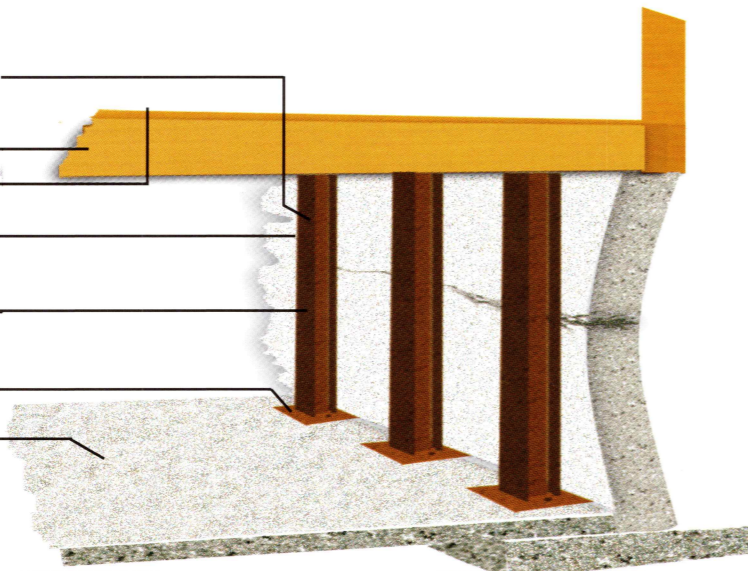
EXISTING JOIST (EXISTING FLOOR)

EXISTING FOUNDATION WALL TO REMAIN NO WORK

W5X16 SOLDIER BEAM
ALT: W6X12

PROVIDE (2) 1/2" DIA. BOLT W/8"x1/2"x8" PLATE

EXISTING FLOOR LEVEL



- Concrete shall be normal weight with minimum cured density of 145 PCF (Per Cubic Ft.), conform to **ASTM (American Society for Testing Material) C33**, and have a minimum at 28 days compressive strength of 3000 psi (Pounds Per Square Inch)
- Verify all conditions and dimensions in the field and report any discrepancies immediately.
- Provide all necessary bracing and shoring to protect existing structure.
- The contractor shall notify the Engineer when construction will take place. The Engineer shall be responsible for verifying a minimum soil bearing capacity of 2500 PSF (Pounds per Square Ft.)
- All reinforcing bars shall be ASTM A-615 grade 60

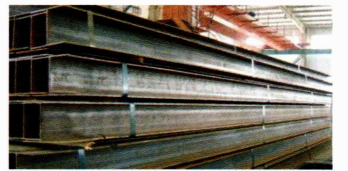
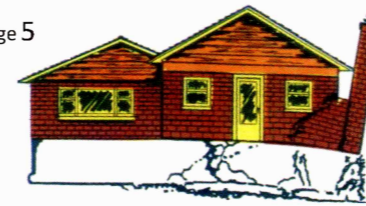
Our competition and why their system fails

Wall tie backs: A big excavation trench is made from the outside and a rod is embedded (into the same sub-soil that is pushing in against the foundation wall) connecting to a plate from the inside of the basement wall with only one screw.

The failure: The reason why all of these walls will continue to fail is because the plate is approximate. **12"x12" The plate will only draw back the blocks it touches since the mortar joints are always broken.**

Family Owned & Operated/ Direct Savings to You

Better Quality Products/ Permanent Repair Solutions



Signs of a Sinking Floor (above crawl or basement)

- Unlevel Floors
- Sloping Floors
- Sagging Floors
- Squeaky Floors
- Crack in Walls
- Sticky Doors

Reasons why a Floor Sinks

- Rotten Wooden Post
- Improper Concrete Pier Sizes
- Non- Engineered I Beams & Post Fail
- Cinder Block Columns Sink and Fail
- Twisted & Cracked Wooden Beams
- Termite infestation in Wood Beam or Post causing the Structural Beam & Post to Fail

The Permanent Repair Solution

- American Foundation Repair Permanent Solution is to Replace Wooden I Beam, Wooden Post or Both with a New Structural Steel I Beam and a New Structural Steel Post
- Structural Steel I Beam Engineered to Size**
- Structural Steel Post to be Schedule #40 & a New Structural **Adjustable Screw** tested up to **100 TONS**
- Structural **Concrete Pier** to be minimum **30"x30"x14"** with a new Structural Steel Channel as a base to be encased with Concrete (Concrete Pier to be sub-level)
- We can **Guarantee** (in most cases) to **raise** your Floor Back to Level Using Hydraulic Rams and Secure it from any further Sinking **Guaranteed**
- Repair any failed joist "Sister Joist"**

PROVIDE W8X31 STEEL BEAMS. POCKET BEAM INTO EXISTING WALL AND GROUT SOLID.

6"x6"x1/2" PLATE BOLTED TO STEEL BEAM.

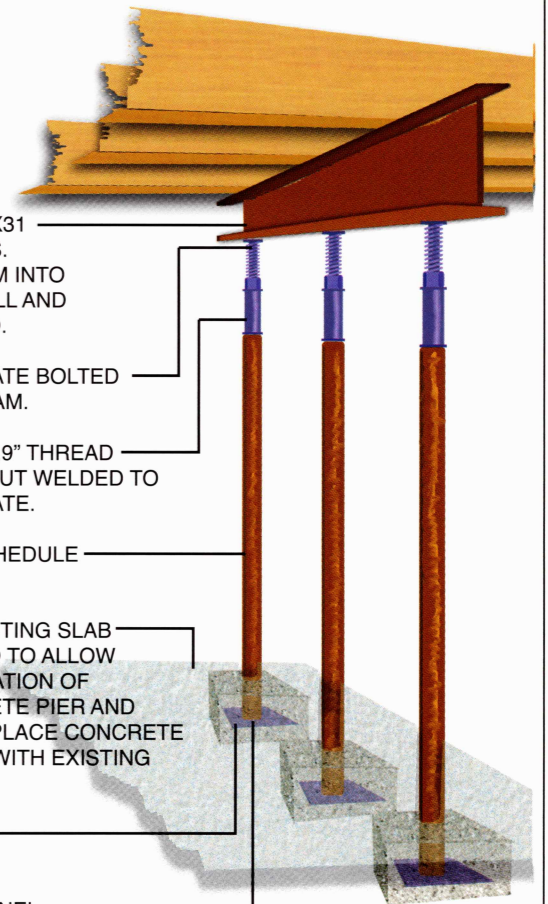
1 3/4" DIA. B-7,9" THREAD STOCK AND NUT WELDED TO 6"x6"x1/2" PLATE.

3 1/2" DIA. SCHEDULE 40 PIPE.

SAWCUT EXISTING SLAB AS REQUIRED TO ALLOW FOR INSTALLATION OF NEW CONCRETE PIER AND COLUMN, REPLACE CONCRETE SLAB FLUSH WITH EXISTING COLUMN.

5-#5 REBARS EACH WAY

C12X30 CHANNEL 2'-6" LONG



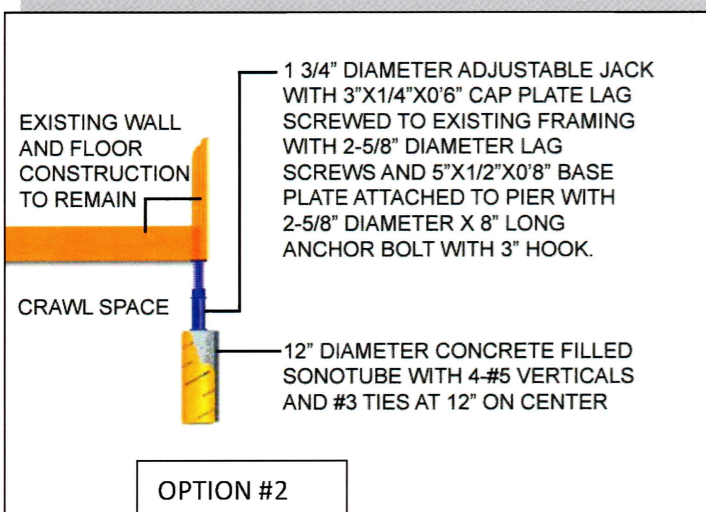
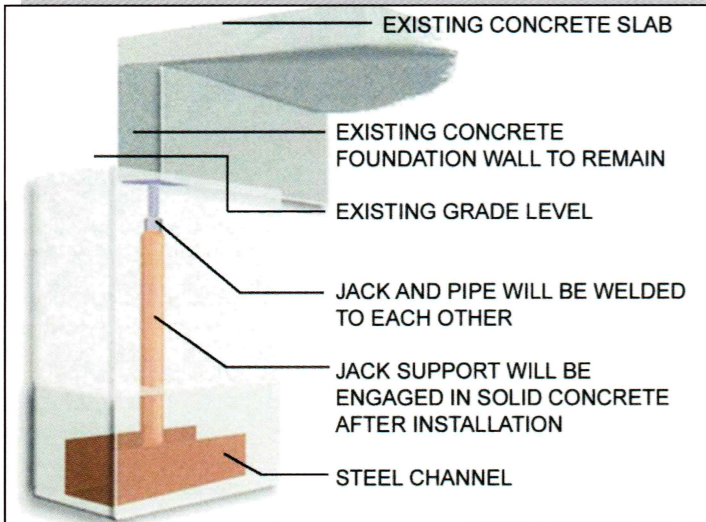
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Brief explanation of the components and installation process

We use only Heavy Duty .50 inch "Steel Channels" to support Heavy Duty 3 1/2" Outside Diameter "Steel Post" (schedule #40) with a new adjustable (100 TON-Tested) screw and a New Structural Steel I Beam Sized to be engineered.

We temporarily shore the existing floor underneath the joist and remove the damaged wooden post and wooden I Beams. We excavate a hole by hand to be 30"x30"x14" and compact the ground and add new clean gravel and place a new Structural Steel Channel as a base plate and erect a new steel Post and weld it to the new Structural I Beam and encase the hole with concrete making it even with your existing floor.

Our objective is to raise or stabilize the structure using our method. Our method has been used on thousands and thousands of residential homes, making us one of the most successful structural repair companies in the entire Chicago Land Area.



Sinking Enclosed Porch or Room Addition

- Non-Existent or too Shallow Foundation
- Non-Existent or too Shallow Footing
- Enclosed Porch or Room Addition on a Slab Floor only (will cause frame to sink)

A push pier **(or helical pier)** cannot be used in a very shallow foundation or on certain foundations such as a (Honey Comb Foundation) or (Flag Stone Foundation) These Foundations in most cases do not have a footing and will not be able to support the immense force applied to the wall from the pushing of the piers. The walls will cave inward and cause more damage

- American Foundation Repair can place a new concrete pier and push off the new concrete pier using our push pier system

42" Deep Concrete Pier (option # 1)

- 42" Deep (Below the Frost Line)
- 3 1/2" Outside Diameter Schedule # 40 Pipe
- 100 Ton Adjustable Screw
- 1/2" Structural Steel Channel used as Base
- 10 Year Warranty (Transferable)

42" Deep Sonotube 12" Diameter (option #2)

- Used on Decks or Framed Out Living Areas

General Notes:

1. We will provide support of all temporary embankments and excavations
2. Footings will be placed at a minimum depth to conform to local codes
3. Concrete shall be of "Ready-Mixed Concrete" and shall conform to ASTM C94. Concrete shall be conveyed and deposited in accordance with the recommendations of ACI 614.
4. All unsound and damaged concrete should be removed until only sound, clean, roughened concrete is exposed. Chip or scarify and area to be repaired to obtain taper edges around perimeter
5. Where concrete is placed against an existing, hardened concrete surface at a construction joint, steel brush and clean the existing concrete surface of any debris, dust and latency. Wet the existing concrete to a surface-dry saturated state prior to concrete placement
6. Structural steel shall conform to ASTM A36
7. Detail, fabricate, and erect all steel in accordance with "AISC Specification", latest edition.
8. All shop and field welding shall be in accordance with A.W.S. "Code for Welding in Building Construction", latest edition, and shall be made by certified welders.
9. Reinforcing bars shall be new billet steel conforming to ASTM A615, grade 60.
10. We will provide all necessary bracing and shoring to protect all existing walls and floor/ceiling structures. Provide all necessary bracing and shoring to protect concrete and masonry walls, existing structures, embankments and utilities.
11. Before any partition walls are removed, we will verify that walls to be removed are not load bearing walls.
12. New concrete piers shall bear on undisturbed soil having safe bearing.

Thousands Of Local Satisfied Customers/References

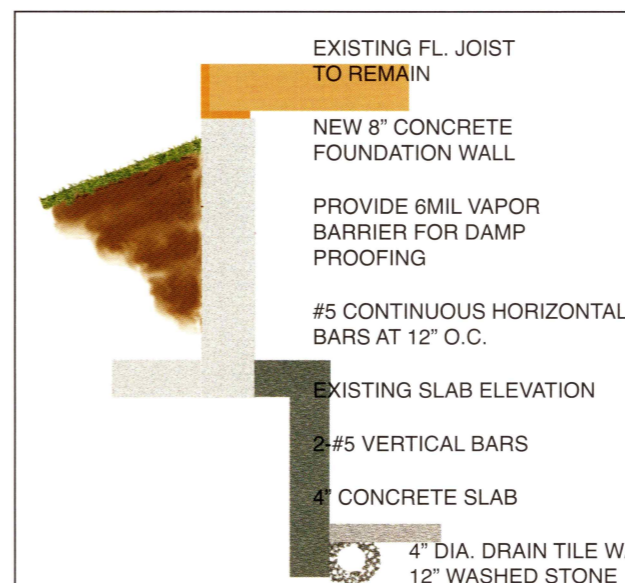
Licensed & Bonded in the City of CHICAGO and Suburbs

Basement or Crawl Space Conversion

- Temporary Shore Crawl or Basement
- Drop Existing Floor to desired depth
- Place New Structural Steel I Beam
- Place New Structural Steel Columns
- New Drain Tile System at Perimeter
- New 8" Thick Retaining Foundation Wall
- New Stone Layer & Concrete Floor Poured

Benefits

- Year-round Installation
- More Head Room and Living Space
- Use the Square Footage You Already Own
- Pays for Itself When you're Ready to Sell
- Increase the Value of Your Home



General Notes:

1. Concrete shall be normal weight with minimum cured density of 145 PCF, conform to ASTM C33, and have a minimum at 28 days compressive strength of 3000PSI.
2. All concrete exposed to the weather shall have 6% air content.
3. Verify all conditions and dimensions in the field and report any discrepancies immediately.
4. Provide all necessary bracing and shoring to protect existing structure.
5. Contractor to be solely responsible for all construction means, methods, techniques, procedures, and for coordinating all portions of the work.
6. The Contractor shall notify the Engineer when construction will take place. The Engineer shall be responsible for verifying a minimum soil bearing capacity of 2500 PSF.
7. All reinforcing bars shall be ASTM A-615 grade 60.

New Trench Foundation Wall

- Room Addition or Enclosed Porch Settling
- Structure built on concrete patio
- Shore & Raise Back to Level (in most cases)
- New 42" Trench Foundation Wall
- Engineered & Inspected by the Village
- More economical than tearing down

Pushing Out (or In) Wing Wall

- Wing Wall Leaning
- Excavate next to Wing Wall
- Push Wall Back to Plumb
- Seal Cracks and Place Crack Plates
- Hydraulically push wall Back

New Drain Tile System (Interior)

- Stops any water leaks at the cove joint (The 90° angle where the wall meets the floor)
- Diverts the ground water away from your house (keeping your basement or crawl dry)
- Install a perforated drain pipe and 3/4" clean stone next to the footing (**Footings to Remain**)
- Water is collected and emptied into sump pit

Waterproofing Basements & Crawl Spaces

- Foundation Crack Repair from either the Inside or Outside using a Crack Plate
- A more Eco-Friendly approach than Epoxy (**we do not use epoxy injection which is not environmentally friendly**)
- Vapor Barrier for Crawl Space Area

EXPLANATIONS & DRAWING

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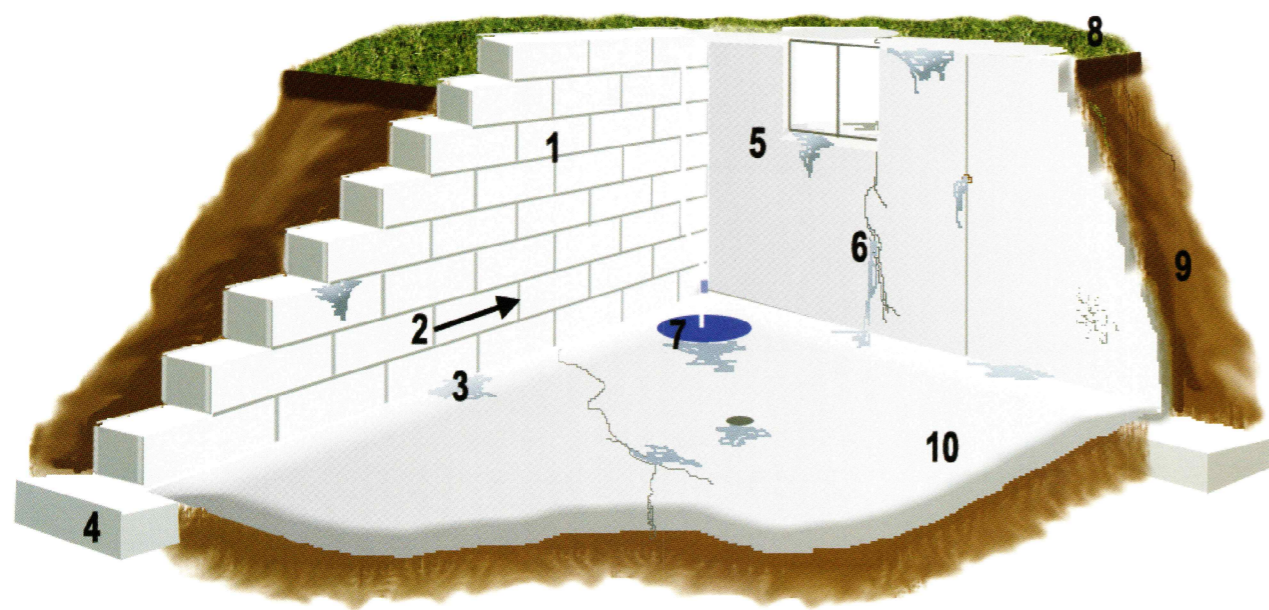
Commonly Used Words (picture them)

1. Block Foundation Wall
2. Mortar Joint
3. Cove Joint
4. Footing
5. Poured Concrete Wall
6. Foundation Crack
7. Sump Pit
8. Grade Level
9. Below grade Level
10. Slab Floor (Concrete)

Our Repair Process is Simple and Fast

- 1) An appointment is made with our friendly staff.
- 2) An experienced professional representative from our company will evaluate your problem and give you a presentation to solve & repair your work along with answering any of your questions.
- 3) An internal meeting is conducted regarding your work project to address any specific needs.
- 4) A written proposal is made and mailed out to you.
- 5) A follow up call is initiated by our representative.
- 6) Once a proposal is accepted we can usually start your project within 1-3 weeks or sooner in most cases.
- 7) We apply for a permit at your village or city (We present Engineering Drawing, Ins. Certificate, Etc.)
- 8) Julie will mark your underground Utility Lines.
- 9) The village Engineer reviews our work & approves it.
- 10) The work project is usually completed within 2-6 days

Comprehensive Quality Foundation Repair/ AFR



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FOUNDATION REPAIR.net
Since 1986

Thank you for choosing American Foundation Repair as your evaluation company. We appreciate your interest in our company and hope we can serve you in your foundation repair needs. Our goal is to satisfy every single one of our customers.

We are a Family Owned & Operated Company

Benjamin Zambrano Sr. Raul Zambrano Sr.
Benjamin Zambrano Jr. Jesus Zambrano

26875 W. RT. 22, BARRINGTON, IL, 60010

TOLL FREE 1-800-644-1900 FAX PHONE 1-847-381-5085

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