

ABOUT US

Howe Company, LLC (Howe Co) started business in 2014 when Shannon Howe purchased the Missouri County bridge engineering and land surveying business from a previous employer. The majority of our team has 15-30 years' experience with local agency bridges. Our focus on rapid delivery of projects has raised the bar on performance and allowed many Local Agencies to complete projects faster than ever before. We have been fortunate to have several clients trust us to deliver multiple projects for their communities in the form of repeat work.

CAPACITY & CAPABILITY

We can handle the construction inspection of 15-20 LPA projects per year and may include the construction of:

- bridges
- roads & streets
- sidewalks, trails
- drainage structures
- site developments
- river terminals
- ferry landings
- steel buildings
- masonry buildings
- steel buildings
- precast concrete buildings
- retaining walls
- storm water facilities
- water main
- sewer

We maintain multiple sets on concrete testing equipment so we can cover multiple projects at any time. Our concrete testing lab includes an inventory of cylinder molds, cube molds,

multiple curing tanks, and a calibrated compression test machine. We have the capacity to make/use mortar cubes and both 4" and 6" test cylinders.

TECHNICAL EXPERTISE & EXPERIENCE

The majority of our staff that work on LPA projects has been through the MoDOT LPA Basic Training Level 1, the MoDOT certification process for field testing of concrete, and a few have the required certifications to test concrete compression samples in our laboratory. In addition to the MoDOT certifications, we provide in-house training that is specific to the types of projects we have with LPA clients. In order to help our field staff do their job well, we also develop and issue a construction inspection reference manual that provides background information and guidance on various inspection duties and construction topics. The supervision of our construction inspection efforts is led by a registered structural engineer.





In addition to construction inspection and concrete testing, we have much experience with the following:

- Assembly of construction contracts
- Preparation for and administration of pre-construction conferences
- Review of Shop drawings and material submittals
- Review of certified payrolls
- Employee Interviews
- Review of the required on-site board postings
- Review of pay requests
- Preparation of progress invoices
- Progress Reports
- Daily Diary Entries
- Semi-final Inspections
- DBE CUF Interviews
- Project Close-out Administration



We also have experience with many of the unpleasant circumstances that can develop during a construction project including:

- Concrete that does not reach design strength.
- Damaged girders.
- Contractor over on time.
- Contractor fails to perform.
- Contractor defaults & bonding company is called in.
- Damage to the substructure during construction.
- Differing site conditions



We have been through a variety of FHWA compliance reviews. These reviews went well and helped us be better prepared to help our clients comply with the federal requirements.

| HOWE COMPANY, LLC CONSTRUCTION INSPECTION EXPERIENCE SUMMARY DECEMBER 2019 | Shannon Howe, P.E., S.E. | Aaron Lukefahr, P.E. | Jon Dwiggins | Wayne Howe | Jeff Roberts |
|---|--------------------------------|-------------------------|-----------------|---------------|-----------------|
| Yrs Experience with MoDOT LPA Program | 24 | 7 | 15 | 5 | 7 |
| Yrs Experience with similar type work | 24 | 7 | 25 | 15 | 25 |
| Construction Staking | X | | X | | |
| Check structure layout | X | | | | X |
| Pile Driving – End Bearing Piles (HP) | X | X | X | X | X |
| Pile Driving – Friction Piles (CIP) | X | X | X | X | X |
| Drilled Shafts | X | X | | X | X |
| Footings on Rock / Shale | X | X | | X | X |
| Footings on Piles | X | X | | X | X |
| Reinforcing Steel Placement - Substructure | X | X | X | X | X |
| Concrete Placement – Substructure | X | X | X | X | X |
| Girder Placement – Prestressed Concrete | X | X | X | | X |
| Girder Placement – Steel WF | X | X | X | X | X |
| Girder Placement – Steel Plate Girder | X | X | X | | |
| Precast Concrete Slab Superstructure | X | X | X | X | X |
| Concrete Deck Panels | X | X | | X | X |
| Corrugated Steel Stay In Place Forms | X | X | | X | X |
| Reinforcing Steel Placement - | X | X | | X | X |
| Deck Machine Settings | X | X | | X | X |
| Concrete Placement - Superstructure | X | X | X | X | X |
| Steel Rail on Bridge | X | X | | X | X |
| Steel Rail – Roadway | X | X | | X | X |
| Concrete Rail on Bridge | X | X | | | |
| Roadway Grading | X | X | | X | X |
| Erosion Control Measures | X | X | | X | X |
| Surfacing – Concrete | X | X | | X | X |
| Surfacing – Asphalt | X | | | | X |
| Surfacing – Aggregate | X | X | | X | X |
| Traffic Control Signs & Barricades | X | X | | X | X |
| Concrete Field Testing for Slump & Air | X | X | X | X | X |
| Lab Testing of Strength Specimens | X | X | | X | |
| Use of Dynamic Cone Penetrometer - | X | X | | | |
| Pre-Construction Conference | X | X | | | |
| Review Materials Certifications | X | X | | | |
| Review Shop Drawings | X | X | | | X |
| Review Labor Reports | X | X | | | X |
| Review Pay Requests | X | X | | | |
| Prepare Progress Invoices / | X | | | | |
| Daily Diary Entries | X | X | X | X | X |
| Pay Diary Entries | X | X | | X | X |
| Semi-Final & Final Inspections | X | X | | X | |
| Project Close-out | X | X | | | |
| Soft Match Credit Submittals | X | | X | | |
| Steel Building Construction Inspection | X | X | | | |
| Masonry Construction Inspection | X | X | | | |



Mercer County Bridge #01300062, BRO-B065 (37)

This is a 92' long single span, concrete girder bridge. Construction cost was \$310,618. Construction was completed Summer.

Reference: Shane Grooms, Associate Commissioner

Phone: (660) 748-3425



Putnam County Courthouse Square Sidewalks

Putnam County, MO – TAP Grant Federally Funded

This included new reinforced concrete pavement on aggregate base, steps, and hand rails. The project cost was \$115,000.

Reference: Chrystal Perkins, County Clerk

Phone: 660-947-2674



Grundy County Bridge #39700081, BRO-B040 (26)

This is a 332'-9" feet long, three span, steel plate girder bridge. Construction completed October 2016. Construction cost was \$1,231,3550.

Reference: Chrystal Perkins, County Clerk

Phone: (660) 359-4040



South Harrison R2 School District – Career Center, Bethany, MO:

The asphalt parking lot was replaced with a new larger parking lot with improved drainage. The new parking lot consists of concrete pavement with curb and gutter, additional parking spaces, larger turning radius, wider driving lanes, new sidewalks and ramps and improved driveway entrances. The project was completed ahead of schedule and under estimated budget. **LOCALLY FUNDED**

Reference: Dennis Eastin, Superintendent

Phone: 660-425-8044



Bethany 30th Street Extension

Locally Funded

City of Bethany, MO

An extension of 30th Street in Bethany, MO consists of 2580 linear feet of 30' wide, 8" thick concrete street, curb & gutter with concrete pipes, 2 large corrugated metal Pipe culverts, 800 linear feet of 8" PVC gravity sanitary sewer. Design was completed in 9 months. Project cost was \$1.7 million.

Reference: Jonne Slemons, Mayor

Phone: 660-425-7889